

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)  
CB SCHEME**

**CB TEST CERTIFICATE**

Product

LCD Panel (LED Backlight)

Name and address of the applicant

AU OPTRONICS CORP.  
1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300,  
TAIWAN

Name and address of the manufacturer

AU OPTRONICS CORP.  
NO. 23, LI- HSIN RD., HSINCHU SCIENCE PARK, HSINCHU,  
30078, TAIWAN

Name and address of the factory

*Note: When more than one factory, please report on page 2*

DARWIN PRECISIONS (XIAMEN) CORP  
3089 NORTH OF XIANG'AN RD XIANG'AN BRANCH TORCH  
HI-TECH INDUSTRIAL DEVELOPMENT ZONE XIAMEN FUJIAN  
361102  
CHINA

☒ Additional Information on page 2

Ratings and principal characteristics

(Optional)  
12 Vdc, 2.08A Max.

Trademark (if any)

AU Optronics

Type of Customer's Testing Facility (CTF) Stage used

CTF Stage 2

Model / Type Ref.

G215HVNZZZZ  
(Z may be any alphanumeric character or blank for  
marketing purpose only, and no impact safety related  
constructions and critical components)

Additional information (if necessary may also be  
reported on page 2)

Additionally evaluated to EN 60950-1:2006 /A11:2009 /A1:2010  
/A12:2011 /A2:2013. National Differences specified in the CB Test  
Report.

☐ Additional Information on page 2

A sample of the product was tested and found  
to be in conformity with

IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1, IEC  
60950-1(ed.2);am2

As shown in the Test Report Ref. No. which forms part  
of this Certificate

E204356-A255-CB-2 issued on 2017-07-04

This CB Test Certificate is issued by the National Certification Body



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA  
UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK  
UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN  
UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2017-07-04

Signature:



Jan-Erik Storgaard



Ref. Certif. No.

DK-64889-UL

## Factories:

RADIANT OPTO-ELECTRONICS (SUZHOU) CO LTD  
1621 E JIANGXIN RD ECONOMIC DEVELOPMENT AREA WUJIANG JIANGSU 215011  
CHINA

SHENZHEN MILLIONBEST OPTOELECTRONICS CO LTD  
E OF 6TH FL BLDG 3 TANGWEI HUA-FENG TECHNOLOGY PARK BAO'AN DISTRICT SHENZHEN GUANGDONG  
518103  
CHINA

DARWIN PRECISIONS (SUZHOU) CORP  
NO 11 TINGXIN STREET WEITING ZHEN SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU 215021  
CHINA

ORTECH ELECTRONICS SUZHOU CO LTD  
399 JINHU WEST RD WUJIANG ECONOMIC DEVELOPMENT WUJIANG JIANGSU  
CHINA

FORTECH ELECTRONICS (KUNSHAN) CO LTD  
555 TONGFENG E RD EXPLOITATION AREA KUNSHAN JIANGSU 215300  
CHINA

CORETRONIC (SUZHOU) CO LTD  
68 QUNXING 3 RD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU  
CHINA

BRIVIEW (HF) CORP  
176 YUNER RD HEFEI ECONOMIC & TECHNOLOGICAL DEVELOPMENT AREA HEFEI ANHUI 230601  
CHINA

AU OPTRONICS ( LONGKE ) CORP  
228 LONGKE ST LONGTAN TOWNSHIP TAOYUAN COUNTY 325  
TAIWAN

QISDA ELECTRONICS (SUZHOU) CO LTD  
169ZHUJIANG RD NEW DISTRICT SUZHOU JIANGSU 215129  
CHINA

AU OPTRONICS MANUFACTURING (SHANGHAI) CORP  
3 LN 58 SAN-ZHUANG RD SONGJIANG EXPORT PROCESSING ZONE SHANGHAI 201600  
CHINA

AU OPTRONICS (SUZHOU) CORP  
NO 398 SUHONG ZHONG ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU  
CHINA

## Additional information (if necessary)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2017-07-04

Signature:

Jan-Erik Storgaard

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)  
CB SCHEME**

**CB TEST CERTIFICATE**

Product

LCD Panel (LED Backlight)

Name and address of the applicant

AU OPTRONICS CORP.  
1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300  
TAIWAN

Name and address of the manufacturer

AU OPTRONICS CORP.  
1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300  
TAIWAN

Name and address of the factory

*Note: When more than one factory, please report on page 2*

AU OPTRONICS ( LONGKE ) CORPORATION  
NO. 228, LONGKE ST, LONGTAN TOWNSHIP, TAOYUAN  
COUNTY 32542  
TAIWAN

☒ Additional Information on page 2

Ratings and principal characteristics

(Optional), 12 Vdc; 2.08A Max.

Trademark (if any)

AU Optronics

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

G215HANZZZZ, G215HVNZZZZ  
(Z may be any alphanumeric character or blank for marketing  
purpose only, and no impact safety related constructions and  
critical components)

Additional information (if necessary may also be  
reported on page 2)

Additionally evaluated to EN 60950-1:2006/ A11:2009/ A1:2010/  
A12:2011/ A2:2013.  
National Differences specified in the CB Test Report.

☒ Additional Information on page 2

A sample of the product was tested and found  
to be in conformity with

IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1,  
IEC 60950-1(ed.2);am2

As shown in the Test Report Ref. No. which forms part  
of this Certificate

E204356-A255-CB-2 issued on 2018-03-22

This CB Test Certificate is issued by the National Certification Body



☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2018-03-22

Original Issue Date: 2017-07-04

Signature:



Jan-Erik Storgaard

**Factories:**

AU OPTRONICS ( SUZHOU ) CORPORATION  
398 SUHONG ZHONG RD. SUZHOU INDUSTRIAL PARK, JIANGSU 215021  
P.R. CHINA

AU OPTRONICS MANUFACTURING (SHANGHAI) CORP.  
NO. 3, LN 58, SAN-ZHUANG RD., SONGJIANG EXPORT PROCESSING ZONE, SHANGHAI  
P.R. CHINA

DARWIN PRECISIONS (SZ) CORPORATION  
NO. 11, TINGXIN STREET, SUZHOU INDUSTRIAL PARK SUZHOU 215021  
P.R. CHINA

FORTECH ELECTRONICS(SUZHOU) CO.,LTD  
NO.399 JIN HU WEST ROAD, WUJIANG ECONOMIC DEVELOPMENT JIANGSU PROVINCE 215200  
P.R. CHINA

QISDA ELECTRONICS (SUZHOU) CO LTD  
NO.169 ZHUJIANG ROAD, NEW DISTRICT, SUZHOU, JIANGSU 215129  
P.R. CHINA

FORTECH ELECTRONICS(KUNSHAN) CO.,LTD  
NO. 555, TONGFENG EAST RD., ECONOMICAL EXPLOITATION AREA KUNSHAN CITY, JIANGSU PROVINCE 215334  
P.R. CHINA

RADIANT OPTO-ELECTRONICS (SUZHOU) CO., LTD  
NO.1621, JIANGXING EAST RD, ECONOMIC DEVELOPING AREA, WUJIANG JIANGSU 215011  
P.R. CHINA

DARWIN PRECISIONS (XIAMEN) CORP  
3089 NORTH OF XIANG'AN RD XIANG'AN BRANCH TORCH HI-TECH INDUSTRIAL DEVELOPMENT ZONE  
XIAMEN FUJIAN 361102  
P.R. CHINA

BRIVIEW (HEFEI) CORP.  
176 YUNER RD HEFEI ECONOMIC &TECHNOLOGICAL DEVELOPMENT AREA, HEFEI ANHUI 230601  
P.R. CHINA

CORETRONIC (SUZHOU) CO., LTD  
NO.68 QUNXING 3 ROAD,SUZHOU INDUSTRIAL PARK  
CHINA

SHENZHEN MILLIONBEST OPTOELECTRONICS CO.,LTD.  
EAST OF 6 FLOOR, BUILDING 3, TANGWEI HUA-FENG TECHNOLOGY PARK,, BAOAN' DISTRICT SHENZHEN  
CHINA

JIANGSU ECHOM SCIENCE & TECHNOLOGY CO LTD.  
168 QIANJIN EAST RD., ECONOMIC AND TECHNOLOGICAL DEVELOPMENT DISTRICT, KUNSHAN, JIANGSU 215300  
CHINA

RADIANT (GUANGZHOU) OPTO - ELECTRONICS CO LTD.  
11 XINRUI RD., SCIENCE TOWN , HI-TECH INDUSTRIAL DEVELOPMENT ZONE, GUANGZHOU, GUANGDONG 510663  
CHINA

**Additional Information:**

The original report was modified to include the following changes/additions:

1. Added an alternative model name with no LED driver board.
2. Updated factory and manufacturer addresses.
3. Added 2 factories.
4. Altitude of operation was changed to 5000m.

**Additional information (if necessary)**


UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

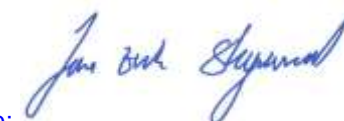
UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2018-03-22

Original Issue Date: 2017-07-04

Signature:



Jan-Erik Storgaard



Test Report issued under  
the responsibility of:



**TEST REPORT**  
**IEC 60950-1**  
**Information technology equipment - Safety -**  
**Part 1: General requirements**

**Report Reference No** ..... : E204356-A255-CB-2

**Date of issue** ..... : 2017-07-04

**Total number of pages** ..... : 46

**CB Testing Laboratory** ..... : Underwriters Laboratories Taiwan Co., Ltd.

**Address** ..... : 260 Da-Yeh Road, 112 Peitou Taipei City, Chinese Taipei

**Applicant's name** ..... : AU OPTRONICS CORP.

**Address** ..... : 1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300,  
TAIWAN

**Test specification:**

**Standard** ..... : IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

**Test procedure** ..... : CB Scheme

**Non-standard test method** ..... : N/A

**Test Report Form No.** ..... : IEC60950\_1F

**Test Report Form originator** ..... : SGS Fimko Ltd

**Master TRF** ..... : Dated 2014-02

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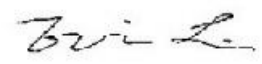
If this test Report is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer**

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

|                                    |                                                                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test item description</b> ..... | LCD Panel (LED Backlight)                                                                                                                                       |
| Trade Mark .....                   | AU Optronics                                                                                                                                                    |
| Manufacturer .....                 | AU OPTRONICS CORP.<br>NO. 23, LI- HSIN RD., HSINCHU SCIENCE PARK, HSINCHU,<br>30078, TAIWAN                                                                     |
| Model/Type reference .....         | G215HVNZZZZ (Z may be any alphanumeric character or blank for<br>marketing purpose only, and no impact safety related constructions<br>and critical components) |
| Ratings .....                      | (Optional)<br>12 Vdc, 2.08A Max.                                                                                                                                |

|                                                                                   |                                                                                                                                                       |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing procedure and testing location:</b>                                    |                                                                                                                                                       |
| <input type="checkbox"/> <b>CB Testing Laboratory</b>                             | Testing location / address .....                                                                                                                      |
| <input type="checkbox"/> <b>Associated CB Test Laboratory</b>                     | Testing location / address .....                                                                                                                      |
|                                                                                   | Tested by (name + signature) .....                                                                                                                    |
|                                                                                   | Approved by (name + signature).....                                                                                                                   |
| <input type="checkbox"/> <b>Testing Procedure: TMP/CTF<br/>Stage 1</b>            | Testing location / address .....                                                                                                                      |
|                                                                                   | Tested by (name + signature) .....                                                                                                                    |
|                                                                                   | Approved by (name + signature).....                                                                                                                   |
| <input checked="" type="checkbox"/> <b>Testing Procedure: WMT/CTF<br/>Stage 2</b> | Testing location / address .....: AU OPTRONICS CORPORATION / NO. 23, LI-HSIN ROAD, HSINCHU SCIENCE PARK, HSINCHU 300, TAIWAN R.O.C.                   |
|                                                                                   | Tested by (name + signature) .....: SC Peng / Tester               |
|                                                                                   | Witnessed by (name + signature) ...: Josh Liao / Project handler  |
|                                                                                   | Approved by (name + signature).....: Eric Liu / Reviewer         |
| <input type="checkbox"/> <b>Testing Procedure: SMT/CTF<br/>Stage 3 or 4</b>       | Testing location / address .....                                                                                                                      |
|                                                                                   | Tested by (name + signature) .....                                                                                                                    |
|                                                                                   | Approved by (name + signature).....                                                                                                                   |
|                                                                                   | Supervised by (name + signature) ..                                                                                                                   |
| <input type="checkbox"/> <b>Testing Procedure: RMT</b>                            | Testing location / address .....                                                                                                                      |
|                                                                                   | Tested by (name + signature) .....                                                                                                                    |
|                                                                                   | Approved by (name + signature).....                                                                                                                   |
|                                                                                   | Supervised by (name + signature) ..                                                                                                                   |

**List of Attachments**

National Differences (57 pages)

Enclosures (10 pages)

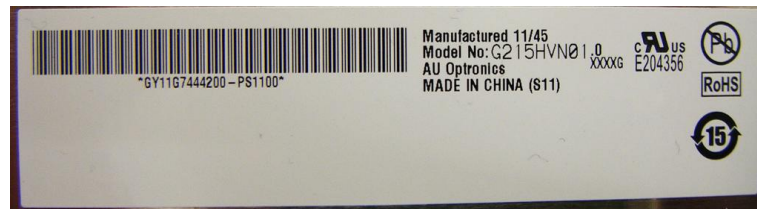
**Summary Of Testing**

Unless otherwise indicated, all tests were conducted at AU OPTRONICS CORPORATION / NO. 23, LI-HSIN ROAD, HSINCHU SCIENCE PARK, HSINCHU 300, TAIWAN R.O.C..

| Tests performed (name of test and test clause)                                                                                                                                                  | Testing location / Comments |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| End Product Reference Page                                                                                                                                                                      |                             |
| General Guidelines                                                                                                                                                                              |                             |
| Input: Single-Phase (1.6.2)                                                                                                                                                                     |                             |
| Determination of Working Voltage; Working Voltage Measurement (2.10.2)                                                                                                                          |                             |
| Heating (4.5.1, 1.4.12, 1.4.13)                                                                                                                                                                 |                             |
| <b>Summary of Compliance with National Differences:</b>                                                                                                                                         |                             |
| Countries outside the CB Scheme membership may also accept this report.                                                                                                                         |                             |
| List of countries addressed: AR, AT, AU, BE, BG, BY, CA, CH, CN, CS, CZ, DE, DK, ES, EU, FI, FR, GB, GR, HU, IE, IL, IN, IT, JP, KR, MY, NL, NO, NZ, PL, PT, RO, SA, SE, SG, SI, SK, UA, US, ZA |                             |

**Copy of Marking Plate**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



**Test item particulars :**

|                                                                                               |                               |
|-----------------------------------------------------------------------------------------------|-------------------------------|
| Equipment mobility .....                                                                      | for building-in               |
| Connection to the mains .....                                                                 | not directly connect to mains |
| Operating condition .....                                                                     | continuous                    |
| Access location .....                                                                         | operator accessible           |
| Over voltage category (OVC) .....                                                             | N/A                           |
| Mains supply tolerance (%) or absolute mains supply values .....                              | N/A                           |
| Tested for IT power systems .....                                                             | No                            |
| IT testing, phase-phase voltage (V) .....                                                     | N/A                           |
| Class of equipment .....                                                                      | Class III (supplied by SELV)  |
| Considered current rating of protective device as part of the building installation (A) ..... | N/A                           |
| Pollution degree (PD) .....                                                                   | PD 2                          |
| IP protection class .....                                                                     | IP X0                         |
| Altitude of operation (m) .....                                                               | Up to 2,000                   |
| Altitude of test laboratory (m) .....                                                         | Up to 2,000                   |
| Mass of equipment (kg) .....                                                                  | 2.3                           |

**Possible test case verdicts:**

- test case does not apply to the test object ..... : N / A
- test object does meet the requirement ..... : P(Pass)
- test object does not meet the requirement ..... : F(Fail)

**Testing:**

|                                       |            |
|---------------------------------------|------------|
| Date(s) of receipt of test item ..... | 2012-01-17 |
| Date(s) of Performance of tests ..... | 2012-02-02 |

**General remarks:**

"(see Enclosure #)" refers to additional information appended to the report.  
 "(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

**Manufacturer's Declaration per Sub Clause 4.2.5 of IECEE 02:**

Yes

The application for obtaining a CB Test Certificate includes more than one factory and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....

When differences exist, they shall be identified in the General Product Information section.

|                                          |                                                                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name and address of Factory(ies):</b> | DARWIN PRECISIONS (XIAMEN) CORP 3089 NORTH OF XIANG'AN RD XIANG'AN BRANCH TORCH HI-TECH INDUSTRIAL DEVELOPMENT ZONE XIAMEN FUJIAN 361102 CHINA |
|                                          | RADIANT OPTO-ELECTRONICS (SUZHOU) CO LTD 1621 E                                                                                                |

JIANGXIN RD ECONOMIC DEVELOPMENT AREA WUJIANG  
JIANGSU 215011 CHINA

SHENZHEN MILLIONBEST OPTOELECTRONICS CO LTD E OF  
6TH FL BLDG 3 TANGWEI HUA-FENG TECHNOLOGY PARK  
BAO'AN DISTRICT SHENZHEN GUANGDONG 518103 CHINA

DARWIN PRECISIONS (SUZHOU) CORP NO 11 TINGXIN  
STREET WEITING ZHEN SUZHOU INDUSTRIAL PARK SUZHOU  
JIANGSU 215021 CHINA

ORTECH ELECTRONICS SUZHOU CO LTD 399 JINHU WEST  
RD WUJIANG ECONOMIC DEVELOPMENT WUJIANG JIANGSU  
CHINA

FORTECH ELECTRONICS (KUNSHAN) CO LTD 555  
TONGFENG E RD EXPLOITATION AREA KUNSHAN JIANGSU  
215300 CHINA

CORETRONIC (SUZHOU) CO LTD 68 QUNXING 3 RD SUZHOU  
INDUSTRIAL PARK SUZHOU JIANGSU CHINA

BRIVIEW (HF) CORP 176 YUNER RD HEFEI ECONOMIC &  
TECHNOLOGICAL DEVELOPMENT AREA HEFEI ANHUI 230601  
CHINA

AU OPTRONICS ( LONGKE ) CORP 228 LONGKE ST LONGTAN  
TOWNSHIP TAOYUAN COUNTY 325 TAIWAN

QISDA ELECTRONICS (SUZHOU) CO LTD 169 ZHUJIANG RD  
NEW DISTRICT SUZHOU JIANGSU 215129 CHINA

AU OPTRONICS MANUFACTURING (SHANGHAI) CORP 3 LN 58  
SAN-ZHUANG RD SONGJIANG EXPORT PROCESSING ZONE  
SHANGHAI 201600 CHINA

AU OPTRONICS (SUZHOU) CORP NO 398 SUHONG ZHONG  
ROAD SUZHOU INDUSTRIAL PARK SUZHOU JIANGSU CHINA

#### GENERAL PRODUCT INFORMATION:

##### Report Summary

All applicable tests according to the referenced standard(s) have been carried out.

##### Product Description

(TFT)LCD Panel secured on metal chassis, and supplied by SELV. Boost with LED driver board.

##### Model Differences

N/A

##### Additional Information

- This report is a reissue of CBTR Ref. No.: E204356-A255-CB-1-Original and E204356-A255-CB-1-Correction-1, CB Test Certificate Ref. No.: DK-25063-UL due to upgrade standard and update the Factory information. Based on the previously conducted testing and the review of product technical documentation including photos, schematics, wiring diagrams and similar, has been determined that the product continues to comply with the standard.

- No tests conducted under this investigation due to reissue of CB Test Report Ref. No. E204356-A255-CB-1, All required tests were carried out under the original investigation.

- The label is a draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

#### Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (T<sub>ma</sub>) permitted by the manufacturer's specification of: 50°C
- The product was investigated to the following additional standards: EN 60950-1:2006 + A11:2009 + A12:2010 + A12:2011 + A2:2013 (which includes all European national differences, including those specified in this test report).

#### Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

- The following secondary output circuits are SELV: all outputs
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The investigated Pollution Degree is: 2
- The following end-product enclosures are required: Mechanical, Fire
- The component is evaluated for use in SELV circuits. --
- Safety Instruction Should be considered in end-product evaluation --
- To be determined in end product. The Maximum temperature (T<sub>max</sub>) for Panel Surface should not exceed 80 degree C. --

#### Abbreviations used in the report:

|                                                        |      |                                  |       |
|--------------------------------------------------------|------|----------------------------------|-------|
| - normal condition .....                               | N.C. | - single fault condition .....   | S.F.C |
| - operational insulation .....                         | OP   | - basic insulation .....         | BI    |
| - basic insulation between parts of opposite polarity: | BOP  | - supplementary insulation ..... | SI    |
| - double insulation .....                              | DI   | - reinforced insulation .....    | RI    |

Indicate used abbreviations (if any)

| IEC 60950-1 |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |
|-------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Clause      | Requirement + Test                                                                                 | Result - Remark                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Verdict |
| 1           | <b>GENERAL</b>                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass    |
| 1.5         | Components                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass    |
| 1.5.1       | General                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass    |
|             | Comply with IEC 60950-1 or relevant component standard                                             | (see appended table 1.5.1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Pass    |
| 1.5.2       | Evaluation and testing of components                                                               | <p>- Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard.</p> <p>- Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component Standard.</p> <p>- Components, for which no relevant IEC Standard exist, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p> | Pass    |
| 1.5.3       | Thermal controls                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.4       | Transformers                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.5       | Interconnecting cables                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.6       | Capacitors bridging insulation                                                                     | It should be evaluated during separate certification of power supply.                                                                                                                                                                                                                                                                                                                                                                                                                         | N/A     |
| 1.5.7       | Resistors bridging insulation                                                                      | It should be evaluated during separate certification of power supply.                                                                                                                                                                                                                                                                                                                                                                                                                         | N/A     |
| 1.5.7.1     | Resistors bridging functional, basic or supplementary insulation                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.7.2     | Resistors bridging double or reinforced insulation between a.c. mains and other circuits           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.7.3     | Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.8       | Components in equipment for IT power systems                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.9       | Surge suppressors                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.9.1     | General                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A     |

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| Clause      | Requirement + Test                                                  | Result - Remark                                                                                                                                                                                                                                                               | Verdict |
| 1.5.9.2     | Protection of VDRs                                                  |                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.9.3     | Bridging of functional insulation by a VDR                          |                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.9.4     | Bridging of basic insulation by a VDR                               |                                                                                                                                                                                                                                                                               | N/A     |
| 1.5.9.5     | Bridging of supplementary, double or reinforced insulation by a VDR |                                                                                                                                                                                                                                                                               | N/A     |
| 1.6         | <b>Power interface</b>                                              |                                                                                                                                                                                                                                                                               | Pass    |
| 1.6.1       | AC power distribution systems                                       | Equipment is not directly connected to the AC mains supply.                                                                                                                                                                                                                   | N/A     |
| 1.6.2       | Input current                                                       | <p>- Equipment is not directly connected to the AC mains supply, test used standard laboratory DC power supply.</p> <p>- The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD. (see appended table 1.6.2).</p> | Pass    |
| 1.6.3       | Voltage limit of hand-held equipment                                |                                                                                                                                                                                                                                                                               | N/A     |
| 1.6.4       | Neutral conductor                                                   |                                                                                                                                                                                                                                                                               | N/A     |

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| 1.7         | <b>Marking and instructions</b>                                              |                                                                                                                                                            | Pass    |
| 1.7.1       | Power rating and identification markings                                     | Optional, rating marking readily visible to operator.                                                                                                      | Pass    |
| 1.7.1.1     | Power rating mark                                                            |                                                                                                                                                            | Pass    |
|             | Multiple mains supply connections .....                                      |                                                                                                                                                            | N/A     |
|             | Rated voltage(s) or voltage range(s) (V) .....                               | Optional, 12 Vdc                                                                                                                                           | Pass    |
|             | Symbol for nature of supply, for d.c. only .....                             | IEC 60417 No. 5031 provided on marking label.                                                                                                              | Pass    |
|             | Rated frequency or rated frequency range (Hz) .....                          |                                                                                                                                                            | N/A     |
|             | Rated current (mA or A) .....                                                | Optional, 2.08 A max.                                                                                                                                      | Pass    |
| 1.7.1.2     | Identification markings                                                      |                                                                                                                                                            | Pass    |
|             | Manufacturer's name or trademark or identification mark .....                | AU Optronics Corp or AU Optronics or E204356                                                                                                               | Pass    |
|             | Model identification or type reference .....                                 | G215HVNZZZZ (Z may be any alphanumeric character or blank for marketing purpose only, and no impact safety related constructions and critical components). | Pass    |
|             | Symbol for Class II equipment only .....                                     |                                                                                                                                                            | N/A     |
|             | Other markings and symbols .....                                             |                                                                                                                                                            | N/A     |
| 1.7.1.3     | Use of graphical symbols                                                     |                                                                                                                                                            | N/A     |
| 1.7.2       | Safety instructions and marking                                              | - Component suitable for factory assembly only.<br><br>- To be evaluated in the end product.                                                               | N/A     |
| 1.7.2.1     | General                                                                      |                                                                                                                                                            | N/A     |
| 1.7.2.2     | Disconnect devices                                                           |                                                                                                                                                            | N/A     |
| 1.7.2.3     | Overcurrent protective device                                                |                                                                                                                                                            | N/A     |
| 1.7.2.4     | IT Power distribution systems                                                |                                                                                                                                                            | N/A     |
| 1.7.2.5     | Operator access with a tool                                                  |                                                                                                                                                            | N/A     |
| 1.7.2.6     | Ozone                                                                        |                                                                                                                                                            | N/A     |
| 1.7.3       | Short duty cycles                                                            |                                                                                                                                                            | N/A     |
| 1.7.4       | Supply voltage adjustment .....                                              |                                                                                                                                                            | N/A     |
|             | Method and means of adjustment; reference to installation instructions ..... |                                                                                                                                                            | N/A     |
| 1.7.5       | Power outlets on the equipment .....                                         |                                                                                                                                                            | N/A     |

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| Clause      | Requirement + Test                                                                   | Result - Remark                                                                                                                  | Verdict |
| 1.7.6       | Fuse identification (marking, special fusing characteristics, cross-reference) ..... |                                                                                                                                  | N/A     |
| 1.7.7       | Wiring terminals                                                                     |                                                                                                                                  | N/A     |
| 1.7.7.1     | Protective earthing and bonding terminals .....                                      |                                                                                                                                  | N/A     |
| 1.7.7.2     | Terminals for a.c. mains supply conductors                                           |                                                                                                                                  | N/A     |
| 1.7.7.3     | Terminals for d.c. mains supply conductors                                           |                                                                                                                                  | N/A     |
| 1.7.8       | Controls and indicators                                                              |                                                                                                                                  | N/A     |
| 1.7.8.1     | Identification, location and marking .....                                           |                                                                                                                                  | N/A     |
| 1.7.8.2     | Colours .....                                                                        |                                                                                                                                  | N/A     |
| 1.7.8.3     | Symbols according to IEC 60417 .....                                                 |                                                                                                                                  | N/A     |
| 1.7.8.4     | Markings using figures.....                                                          |                                                                                                                                  | N/A     |
| 1.7.9       | Isolation of multiple power sources .....                                            |                                                                                                                                  | N/A     |
| 1.7.10      | Thermostats and other regulating devices .....                                       |                                                                                                                                  | N/A     |
| 1.7.11      | Durability                                                                           | All markings provided on UL Recognized Component labels suitable for surface they are applied upon and meet the durability test. | Pass    |
| 1.7.12      | Removable parts                                                                      |                                                                                                                                  | N/A     |
| 1.7.13      | Replaceable batteries .....                                                          |                                                                                                                                  | N/A     |
|             | Language(s) .....                                                                    |                                                                                                                                  | -       |
| 1.7.14      | Equipment for restricted access locations .....                                      |                                                                                                                                  | N/A     |

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| 2       | <b>PROTECTION FROM HAZARDS</b>                                                                             |                                                          | Pass |
| 2.1     | Protection from electric shock and energy hazards                                                          |                                                          | N/A  |
| 2.1.1   | Protection in operator access areas                                                                        | The accessibility shall be evaluated in the end product. | N/A  |
| 2.1.1.1 | Access to energized parts                                                                                  |                                                          | N/A  |
|         | Test by inspection..... :                                                                                  |                                                          | N/A  |
|         | Test with test finger (Figure 2A) ..... :                                                                  |                                                          | N/A  |
|         | Test with test pin (Figure 2B)..... :                                                                      |                                                          | N/A  |
|         | Test with test probe (Figure 2C) ..... :                                                                   |                                                          | N/A  |
| 2.1.1.2 | Battery compartments                                                                                       |                                                          | N/A  |
| 2.1.1.3 | Access to ELV wiring                                                                                       |                                                          | N/A  |
|         | Working voltage (V <sub>peak</sub> or V <sub>rms</sub> ); minimum distance through insulation (mm) ..... : |                                                          | -    |
| 2.1.1.4 | Access to hazardous voltage circuit wiring                                                                 |                                                          | N/A  |
| 2.1.1.5 | Energy hazards ..... :                                                                                     |                                                          | N/A  |
| 2.1.1.6 | Manual controls                                                                                            |                                                          | N/A  |
| 2.1.1.7 | Discharge of capacitors in equipment                                                                       |                                                          | N/A  |
|         | Measured voltage (V); time-constant (s) ..... :                                                            |                                                          | -    |
| 2.1.1.8 | Energy hazards - d.c. mains supply                                                                         |                                                          | N/A  |
|         | a) Capacitor connected to the d.c. mains supply .. :                                                       |                                                          | N/A  |
|         | b) Internal battery connected to the mains supply :                                                        |                                                          | N/A  |
| 2.1.1.9 | Audio amplifiers ..... :                                                                                   |                                                          | N/A  |
| 2.1.2   | Protection in service access areas                                                                         |                                                          | N/A  |
| 2.1.3   | Protection in restricted access locations                                                                  |                                                          | N/A  |

|       |                                                       |                                                                                                  |      |
|-------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------|------|
| 2.2   | <b>SELV circuits</b>                                  |                                                                                                  | Pass |
| 2.2.1 | General requirements                                  |                                                                                                  | Pass |
| 2.2.2 | Voltages under normal conditions (V) ..... :          | All accessible voltages are less than 42.4 V <sub>p</sub> or 60 V dc and are classified as SELV. | Pass |
| 2.2.3 | Voltages under fault conditions (V) ..... :           |                                                                                                  | N/A  |
| 2.2.4 | Connection of SELV circuits to other circuits ..... : | SELV circuits are only connected to other secondary circuits..                                   | Pass |

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| 2.3         | <b>TNV circuits</b>                                                                    |                 | N/A     |
| 2.3.1       | Limits                                                                                 |                 | N/A     |
|             | Type of TNV circuits .....                                                             |                 | -       |
| 2.3.2       | Separation from other circuits and from accessible parts                               |                 | N/A     |
| 2.3.2.1     | General requirements                                                                   |                 | N/A     |
| 2.3.2.2     | Protection by basic insulation                                                         |                 | N/A     |
| 2.3.2.3     | Protection by earthing                                                                 |                 | N/A     |
| 2.3.2.4     | Protection by other constructions .....                                                |                 | N/A     |
| 2.3.3       | Separation from hazardous voltages                                                     |                 | N/A     |
|             | Insulation employed.....                                                               |                 | -       |
| 2.3.4       | Connection of TNV circuits to other circuits                                           |                 | N/A     |
|             | Insulation employed.....                                                               |                 | -       |
| 2.3.5       | Test for operating voltages generated externally                                       |                 | N/A     |
| 2.4         | <b>Limited current circuits</b>                                                        |                 | N/A     |
| 2.4.1       | General requirements                                                                   |                 | N/A     |
| 2.4.2       | Limit values                                                                           |                 | N/A     |
|             | Frequency (Hz) .....                                                                   |                 | -       |
|             | Measured current (mA).....                                                             |                 | -       |
|             | Measured voltage (V) .....                                                             |                 | -       |
|             | Measured circuit capacitance (nF or $\mu$ F) .....                                     |                 | -       |
| 2.4.3       | Connection of limited current circuits to other circuits                               |                 | N/A     |
| 2.5         | <b>Limited power sources</b>                                                           |                 | N/A     |
|             | a) Inherently limited output                                                           |                 | N/A     |
|             | b) Impedance limited output                                                            |                 | N/A     |
|             | c) Regulating network limited output under normal operating and single fault condition |                 | N/A     |
|             | Use of integrated circuit (IC) current limiters .....                                  |                 | -       |
|             | d) Overcurrent protective device limited output                                        |                 | N/A     |
|             | Max. output voltage (V), max. output current (A), max. apparent power (VA).....        |                 | -       |
|             | Current rating of overcurrent protective device (A) :                                  |                 | -       |

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| Clause      | Requirement + Test                                                                                                                     | Result - Remark | Verdict |
| 2.6         | <b>Provisions for earthing and bonding</b>                                                                                             |                 | N/A     |
| 2.6.1       | Protective earthing                                                                                                                    |                 | N/A     |
| 2.6.2       | Functional earthing                                                                                                                    |                 | N/A     |
|             | Use of symbol for functional earthing ..... :                                                                                          |                 | N/A     |
| 2.6.3       | Protective earthing and protective bonding conductors                                                                                  |                 | N/A     |
| 2.6.3.1     | General                                                                                                                                |                 | N/A     |
| 2.6.3.2     | Size of protective earthing conductors                                                                                                 |                 | N/A     |
|             | Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG ..... :                                                                |                 | -       |
| 2.6.3.3     | Size of protective bonding conductors                                                                                                  |                 | N/A     |
|             | Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG ..... :                                                                |                 | -       |
|             | Protective current rating (A), cross-sectional area (mm <sup>2</sup> ), AWG..... :                                                     |                 | -       |
| 2.6.3.4     | Resistance of earthing conductors and their terminations; resistance (ohm), voltage drop (V), test current (A), duration (min) ..... : |                 | N/A     |
| 2.6.3.5     | Colour of insulation ..... :                                                                                                           |                 | N/A     |
| 2.6.4       | Terminals                                                                                                                              |                 | N/A     |
| 2.6.4.1     | General                                                                                                                                |                 | N/A     |
| 2.6.4.2     | Protective earthing and bonding terminals                                                                                              |                 | N/A     |
|             | Rated current (A), type, nominal thread diameter (mm) ..... :                                                                          |                 | -       |
| 2.6.4.3     | Separation of the protective earthing conductor from protective bonding conductors                                                     |                 | N/A     |
| 2.6.5       | Integrity of protective earthing                                                                                                       |                 | N/A     |
| 2.6.5.1     | Interconnection of equipment                                                                                                           |                 | N/A     |
| 2.6.5.2     | Components in protective earthing conductors and protective bonding conductors                                                         |                 | N/A     |
| 2.6.5.3     | Disconnection of protective earth                                                                                                      |                 | N/A     |
| 2.6.5.4     | Parts that can be removed by an operator                                                                                               |                 | N/A     |
| 2.6.5.5     | Parts removed during servicing                                                                                                         |                 | N/A     |
| 2.6.5.6     | Corrosion resistance                                                                                                                   |                 | N/A     |
| 2.6.5.7     | Screws for protective bonding                                                                                                          |                 | N/A     |
| 2.6.5.8     | Reliance on telecommunication network or cable distribution system                                                                     |                 | N/A     |

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| 2.7   | <b>Overcurrent and earth fault protection in primary circuits</b> |  | N/A |
| 2.7.1 | Basic requirements                                                |  | N/A |
|       | Instructions when protection relies on building installation      |  | N/A |
| 2.7.2 | Faults not covered in 5.3.7                                       |  | N/A |
| 2.7.3 | Short-circuit backup protection                                   |  | N/A |
| 2.7.4 | Number and location of protective devices ..... :                 |  | N/A |
| 2.7.5 | Protection by several devices                                     |  | N/A |
| 2.7.6 | Warning to service personnel ..... :                              |  | N/A |

|         |                                                                               |  |     |
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| 2.8     | <b>Safety interlocks</b>                                                      |  | N/A |
| 2.8.1   | General principles                                                            |  | N/A |
| 2.8.2   | Protection requirements                                                       |  | N/A |
| 2.8.3   | Inadvertent reactivation                                                      |  | N/A |
| 2.8.4   | Fail-safe operation                                                           |  | N/A |
|         | Protection against extreme hazard                                             |  | N/A |
| 2.8.5   | Moving parts                                                                  |  | N/A |
| 2.8.6   | Overriding                                                                    |  | N/A |
| 2.8.7   | Switches, relays and their related circuits                                   |  | N/A |
| 2.8.7.1 | Separation distances for contact gaps and their related circuits (mm) ..... : |  | N/A |
| 2.8.7.2 | Overload test                                                                 |  | N/A |
| 2.8.7.3 | Endurance test                                                                |  | N/A |
| 2.8.7.4 | Electric strength test                                                        |  | N/A |
| 2.8.8   | Mechanical actuators                                                          |  | N/A |

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| 2.9   | <b>Electrical insulation</b>                   |                                                                                                     | Pass |
| 2.9.1 | Properties of insulating materials             | Natural rubber, materials containing asbestos and hygroscopic materials are not used as insulation. | Pass |
| 2.9.2 | Humidity conditioning                          | To be evaluated in the end product.                                                                 | N/A  |
|       | Relative humidity (%), temperature (°C)..... : |                                                                                                     | -    |
| 2.9.3 | Grade of insulation                            | Functional insulation used.                                                                         | Pass |
| 2.9.4 | Separation from hazardous voltages             |                                                                                                     | N/A  |
|       | Method(s) used..... :                          |                                                                                                     | -    |

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| 2.10     | <b>Clearances, creepage distances and distances through insulation</b>          |                                                                                                | Pass |
| 2.10.1   | General                                                                         | - Pollution Degree 2 applicable.<br>- Class III product, for functional insulation, see 5.3.4. | Pass |
| 2.10.1.1 | Frequency..... :                                                                |                                                                                                | N/A  |
| 2.10.1.2 | Pollution degrees..... :                                                        | 2                                                                                              | Pass |
| 2.10.1.3 | Reduced values for functional insulation                                        |                                                                                                | Pass |
| 2.10.1.4 | Intervening unconnected conductive parts                                        |                                                                                                | N/A  |
| 2.10.1.5 | Insulation with varying dimensions                                              |                                                                                                | N/A  |
| 2.10.1.6 | Special separation requirements                                                 |                                                                                                | N/A  |
| 2.10.1.7 | Insulation in circuits generating starting pulses                               |                                                                                                | N/A  |
| 2.10.2   | Determination of working voltage                                                |                                                                                                | Pass |
| 2.10.2.1 | General                                                                         |                                                                                                | Pass |
| 2.10.2.2 | RMS working voltage                                                             | Refer to table 2.10.2                                                                          | Pass |
| 2.10.2.3 | Peak working voltage                                                            | Refer to table 2.10.2                                                                          | Pass |
| 2.10.3   | Clearances                                                                      | Class III product, for functional insulation, see 5.3.4.                                       | N/A  |
| 2.10.3.1 | General                                                                         |                                                                                                | N/A  |
| 2.10.3.2 | Mains transient voltages                                                        |                                                                                                | N/A  |
|          | a) AC mains supply .....                                                        |                                                                                                | N/A  |
|          | b) Earthed d.c. mains supplies .....                                            |                                                                                                | N/A  |
|          | c) Unearthed d.c. mains supplies .....                                          |                                                                                                | N/A  |
|          | d) Battery operation .....                                                      |                                                                                                | N/A  |
| 2.10.3.3 | Clearances in primary circuits                                                  |                                                                                                | N/A  |
| 2.10.3.4 | Clearances in secondary circuits                                                |                                                                                                | N/A  |
| 2.10.3.5 | Clearances in circuits having starting pulses                                   |                                                                                                | N/A  |
| 2.10.3.6 | Transients from a.c. mains supply..... :                                        |                                                                                                | N/A  |
| 2.10.3.7 | Transients from d.c. mains supply..... :                                        |                                                                                                | N/A  |
| 2.10.3.8 | Transients from telecommunication networks and cable distribution systems ..... |                                                                                                | N/A  |
| 2.10.3.9 | Measurement of transient voltage levels                                         |                                                                                                | N/A  |
|          | a) Transients from a mains supply                                               |                                                                                                | N/A  |
|          | For an a.c. mains supply .....                                                  |                                                                                                | N/A  |
|          | For a d.c. mains supply .....                                                   |                                                                                                | N/A  |
|          | b) Transients from a telecommunication network                                  |                                                                                                | N/A  |

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| 2.10.4      | Creepage distances                                                           | Class III product, for functional insulation, see 5.3.4. | Pass    |
| 2.10.4.1    | General                                                                      |                                                          | Pass    |
| 2.10.4.2    | Material group and comparative tracking index                                |                                                          | Pass    |
|             | CTI tests .....                                                              | Material group IIIb; 100 <= CTI < 175.                   | -       |
| 2.10.4.3    | Minimum creepage distances                                                   |                                                          | N/A     |
| 2.10.5      | Solid insulation                                                             |                                                          | N/A     |
| 2.10.5.1    | General                                                                      |                                                          | N/A     |
| 2.10.5.2    | Distances through insulation                                                 |                                                          | N/A     |
| 2.10.5.3    | Insulating compound as solid insulation                                      |                                                          | N/A     |
| 2.10.5.4    | Semiconductor devices                                                        |                                                          | N/A     |
| 2.10.5.5    | Cemented joints                                                              |                                                          | N/A     |
| 2.10.5.6    | Thin sheet material - General                                                |                                                          | N/A     |
| 2.10.5.7    | Separable thin sheet material                                                |                                                          | N/A     |
|             | Number of layers (pcs) .....                                                 |                                                          | -       |
| 2.10.5.8    | Non-separable thin sheet material                                            |                                                          | N/A     |
| 2.10.5.9    | Thin sheet material - standard test procedure                                |                                                          | N/A     |
|             | Electric strength test .....                                                 |                                                          | -       |
| 2.10.5.10   | Thin sheet material - alternative test procedure                             |                                                          | N/A     |
|             | Electric strength test .....                                                 |                                                          | -       |
| 2.10.5.11   | Insulation in wound components                                               |                                                          | N/A     |
| 2.10.5.12   | Wire in wound components                                                     |                                                          | N/A     |
|             | Working voltage .....                                                        |                                                          | N/A     |
|             | a) Basic insulation not under stress .....                                   |                                                          | N/A     |
|             | b) Basic, supplementary, reinforced insulation.....                          |                                                          | N/A     |
|             | c) Compliance with Annex U .....                                             |                                                          | N/A     |
|             | Two wires in contact inside wound component; angle between 45° and 90° ..... |                                                          | N/A     |
| 2.10.5.13   | Wire with solvent-based enamel in wound components                           |                                                          | N/A     |
|             | Electric strength test .....                                                 |                                                          | -       |
|             | Routine test                                                                 |                                                          | N/A     |
| 2.10.5.14   | Additional insulation in wound components                                    |                                                          | N/A     |
|             | Working voltage .....                                                        |                                                          | N/A     |
|             | - Basic insulation not under stress .....                                    |                                                          | N/A     |

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|          | - Supplementary, reinforced insulation..... :                              |  | N/A  |
| 2.10.6   | Construction of printed boards                                             |  | Pass |
| 2.10.6.1 | Uncoated printed boards                                                    |  | Pass |
| 2.10.6.2 | Coated printed boards                                                      |  | N/A  |
| 2.10.6.3 | Insulation between conductors on the same inner surface of a printed board |  | N/A  |
| 2.10.6.4 | Insulation between conductors on different layers of a printed board       |  | N/A  |
|          | Distance through insulation                                                |  | N/A  |
|          | Number of insulation layers (pcs)..... :                                   |  | N/A  |
| 2.10.7   | Component external terminations                                            |  | N/A  |
| 2.10.8   | Tests on coated printed boards and coated components                       |  | N/A  |
| 2.10.8.1 | Sample preparation and preliminary inspection                              |  | N/A  |
| 2.10.8.2 | Thermal conditioning                                                       |  | N/A  |
| 2.10.8.3 | Electric strength test                                                     |  | N/A  |
| 2.10.8.4 | Abrasion resistance test                                                   |  | N/A  |
| 2.10.9   | Thermal cycling                                                            |  | N/A  |
| 2.10.10  | Test for Pollution Degree 1 environment and insulating compound            |  | N/A  |
| 2.10.11  | Tests for semiconductor devices and cemented joints                        |  | N/A  |
| 2.10.12  | Enclosed and sealed parts                                                  |  | N/A  |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|        |                                                |                                     |      |
|--------|------------------------------------------------|-------------------------------------|------|
| 3      | <b>WIRING, CONNECTIONS AND SUPPLY</b>          |                                     | Pass |
| 3.1    | General                                        |                                     | Pass |
| 3.1.1  | Current rating and overcurrent protection      |                                     | N/A  |
| 3.1.2  | Protection against mechanical damage           |                                     | N/A  |
| 3.1.3  | Securing of internal wiring                    |                                     | N/A  |
| 3.1.4  | Insulation of conductors                       | Supplied by SELV circuit.           | Pass |
| 3.1.5  | Beads and ceramic insulators                   |                                     | N/A  |
| 3.1.6  | Screws for electrical contact pressure         |                                     | N/A  |
| 3.1.7  | Insulating materials in electrical connections |                                     | N/A  |
| 3.1.8  | Self-tapping and spaced thread screws          |                                     | N/A  |
| 3.1.9  | Termination of conductors                      | To be evaluated in the end product. | N/A  |
|        | 10 N pull test                                 |                                     | N/A  |
| 3.1.10 | Sleeving on wiring                             |                                     | N/A  |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|         |                                                                       |  |     |
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| 3.2     | <b>Connection to mains supply</b>                                     |  | N/A |
| 3.2.1   | Means of connection                                                   |  | N/A |
| 3.2.1.1 | Connection to an a.c. mains supply                                    |  | N/A |
| 3.2.1.2 | Connection to a d.c. mains supply                                     |  | N/A |
| 3.2.2   | Multiple supply connections                                           |  | N/A |
| 3.2.3   | Permanently connected equipment                                       |  | N/A |
|         | Number of conductors, diameter of cable and conduits (mm) .....       |  | -   |
| 3.2.4   | Appliance inlets                                                      |  | N/A |
| 3.2.5   | Power supply cords                                                    |  | N/A |
| 3.2.5.1 | AC power supply cords                                                 |  | N/A |
|         | Type .....                                                            |  | -   |
|         | Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG ..... |  | -   |
| 3.2.5.2 | DC power supply cords                                                 |  | N/A |
| 3.2.6   | Cord anchorages and strain relief                                     |  | N/A |
|         | Mass of equipment (kg), pull (N) .....                                |  | -   |
|         | Longitudinal displacement (mm) .....                                  |  | -   |
| 3.2.7   | Protection against mechanical damage                                  |  | N/A |
| 3.2.8   | Cord guards                                                           |  | N/A |
|         | Diameter of minor dimension D (mm); test mass (g) .....               |  | -   |
|         | Radius of curvature of cord (mm) .....                                |  | -   |
| 3.2.9   | Supply wiring space                                                   |  | N/A |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|       |                                                                                   |  |     |
|-------|-----------------------------------------------------------------------------------|--|-----|
| 3.3   | <b>Wiring terminals for connection of external conductors</b>                     |  | N/A |
| 3.3.1 | Wiring terminals                                                                  |  | N/A |
| 3.3.2 | Connection of non-detachable power supply cords                                   |  | N/A |
| 3.3.3 | Screw terminals                                                                   |  | N/A |
| 3.3.4 | Conductor sizes to be connected                                                   |  | N/A |
|       | Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) ..... |  | -   |
| 3.3.5 | Wiring terminal sizes                                                             |  | N/A |
|       | Rated current (A), type and nominal thread diameter (mm) .....                    |  | -   |
| 3.3.6 | Wiring terminals design                                                           |  | N/A |
| 3.3.7 | Grouping of wiring terminals                                                      |  | N/A |
| 3.3.8 | Stranded wire                                                                     |  | N/A |

|        |                                                   |  |     |
|--------|---------------------------------------------------|--|-----|
| 3.4    | <b>Disconnection from the mains supply</b>        |  | N/A |
| 3.4.1  | General requirement                               |  | N/A |
| 3.4.2  | Disconnect devices                                |  | N/A |
| 3.4.3  | Permanently connected equipment                   |  | N/A |
| 3.4.4  | Parts which remain energized                      |  | N/A |
| 3.4.5  | Switches in flexible cords                        |  | N/A |
| 3.4.6  | Number of poles - single-phase and d.c. equipment |  | N/A |
| 3.4.7  | Number of poles - three-phase equipment           |  | N/A |
| 3.4.8  | Switches as disconnect devices                    |  | N/A |
| 3.4.9  | Plugs as disconnect devices                       |  | N/A |
| 3.4.10 | Interconnected equipment                          |  | N/A |
| 3.4.11 | Multiple power sources                            |  | N/A |

|       |                                          |                                                                                     |      |
|-------|------------------------------------------|-------------------------------------------------------------------------------------|------|
| 3.5   | <b>Interconnection of equipment</b>      |                                                                                     | Pass |
| 3.5.1 | General requirements                     |                                                                                     | Pass |
| 3.5.2 | Types of interconnection circuits .....  | SELV CIRCUITS are intended to connect to SELV CIRCUITS or LIMITED CURRENT CIRCUITS. | Pass |
| 3.5.3 | ELV circuits as interconnection circuits |                                                                                     | N/A  |
| 3.5.4 | Data ports for additional equipment      |                                                                                     | N/A  |

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| Clause      | Requirement + Test                                   | Result - Remark                 | Verdict |
| 4           | <b>PHYSICAL REQUIREMENTS</b>                         |                                 | Pass    |
| 4.1         | Stability                                            |                                 | N/A     |
|             | Angle of 10°                                         | To be evaluated in end product. | N/A     |
|             | Test force (N)..... :                                |                                 | N/A     |
| 4.2         | <b>Mechanical strength</b>                           |                                 | N/A     |
| 4.2.1       | General                                              | To be evaluated in end product. | N/A     |
|             | Rack-mounted equipment                               |                                 | N/A     |
| 4.2.2       | Steady force test, 10 N                              |                                 | N/A     |
| 4.2.3       | Steady force test, 30 N                              |                                 | N/A     |
| 4.2.4       | Steady force test, 250 N                             |                                 | N/A     |
| 4.2.5       | Impact test                                          |                                 | N/A     |
|             | Fall test                                            |                                 | N/A     |
|             | Swing test                                           |                                 | N/A     |
| 4.2.6       | Drop test; height (mm)..... :                        |                                 | N/A     |
| 4.2.7       | Stress relief test                                   |                                 | N/A     |
| 4.2.8       | Cathode ray tubes                                    |                                 | N/A     |
|             | Picture tube separately certified ..... :            |                                 | N/A     |
| 4.2.9       | High pressure lamps                                  |                                 | N/A     |
| 4.2.10      | Wall or ceiling mounted equipment; force (N) ..... : |                                 | N/A     |

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| Clause      | Requirement + Test                                                        | Result - Remark                                                                   | Verdict |
| 4.3         | <b>Design and construction</b>                                            |                                                                                   | Pass    |
| 4.3.1       | Edges and corners                                                         |                                                                                   | Pass    |
| 4.3.2       | Handles and manual controls; force (N)..... :                             |                                                                                   | N/A     |
| 4.3.3       | Adjustable controls                                                       |                                                                                   | N/A     |
| 4.3.4       | Securing of parts                                                         |                                                                                   | N/A     |
| 4.3.5       | Connection by plugs and sockets                                           |                                                                                   | N/A     |
| 4.3.6       | Direct plug-in equipment                                                  |                                                                                   | N/A     |
|             | Torque ..... :                                                            |                                                                                   | N/A     |
|             | Compliance with the relevant mains plug standard:                         |                                                                                   | N/A     |
| 4.3.7       | Heating elements in earthed equipment                                     |                                                                                   | N/A     |
| 4.3.8       | Batteries                                                                 |                                                                                   | N/A     |
|             | - Overcharging of a rechargeable battery                                  |                                                                                   | N/A     |
|             | - Unintentional charging of a non-rechargeable battery                    |                                                                                   | N/A     |
|             | - Reverse charging of a rechargeable battery                              |                                                                                   | N/A     |
|             | - Excessive discharging rate for any battery                              |                                                                                   | N/A     |
| 4.3.9       | Oil and grease                                                            |                                                                                   | N/A     |
| 4.3.10      | Dust, powders, liquids and gases                                          |                                                                                   | N/A     |
| 4.3.11      | Containers for liquids or gases                                           |                                                                                   | N/A     |
| 4.3.12      | Flammable liquids..... :                                                  |                                                                                   | N/A     |
|             | Quantity of liquid (l)..... :                                             |                                                                                   | N/A     |
|             | Flash point (°C)..... :                                                   |                                                                                   | N/A     |
| 4.3.13      | Radiation                                                                 |                                                                                   | N/A     |
| 4.3.13.1    | General                                                                   |                                                                                   | N/A     |
| 4.3.13.2    | Ionizing radiation                                                        |                                                                                   | N/A     |
|             | Measured radiation (pA/kg) ..... :                                        |                                                                                   | -       |
|             | Measured high-voltage (kV) ..... :                                        |                                                                                   | -       |
|             | Measured focus voltage (kV) ..... :                                       |                                                                                   | -       |
|             | CRT markings..... :                                                       |                                                                                   | -       |
| 4.3.13.3    | Effect of ultraviolet (UV) radiation on materials                         |                                                                                   | N/A     |
|             | Part, property, retention after test, flammability classification ..... : |                                                                                   | N/A     |
| 4.3.13.4    | Human exposure to ultraviolet (UV) radiation ..... :                      |                                                                                   | N/A     |
| 4.3.13.5    | Lasers (including laser diodes) and LEDs                                  | This product contains only visible LEDs (Class 1) operating in the range of 400 - | N/A     |

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|            |                                 |                                                                                                                                             |     |
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|            |                                 | 700 nm wavelength. No IEC60825-1 evaluation was deemed necessary. Additional review may be required at the discretion of the accepting NCB. |     |
| 4.3.13.5.1 | Lasers (including laser diodes) |                                                                                                                                             | N/A |
|            | Laser class .....               | (For LEDs, see above statement.)                                                                                                            | -   |
| 4.3.13.5.2 | Light emitting diodes (LEDs)    |                                                                                                                                             | N/A |
| 4.3.13.6   | Other types .....               |                                                                                                                                             | N/A |

|         |                                                    |  |     |
|---------|----------------------------------------------------|--|-----|
| 4.4     | <b>Protection against hazardous moving parts</b>   |  | N/A |
| 4.4.1   | General                                            |  | N/A |
| 4.4.2   | Protection in operator access areas .....          |  | N/A |
|         | Household and home/office document/media shredders |  | N/A |
| 4.4.3   | Protection in restricted access locations .....    |  | N/A |
| 4.4.4   | Protection in service access areas                 |  | N/A |
| 4.4.5   | Protection against moving fan blades               |  | N/A |
| 4.4.5.1 | General                                            |  | N/A |
|         | Not considered to cause pain or injury. a) .....   |  | N/A |
|         | Is considered to cause pain, not injury. b) .....  |  | N/A |
|         | Considered to cause injury. c) .....               |  | N/A |
| 4.4.5.2 | Protection for users                               |  | N/A |
|         | Use of symbol or warning .....                     |  | N/A |
| 4.4.5.3 | Protection for service persons                     |  | N/A |
|         | Use of symbol or warning .....                     |  | N/A |

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|       |                                           |                                                                                                                            |      |
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| 4.5   | <b>Thermal requirements</b>               |                                                                                                                            | Pass |
| 4.5.1 | General                                   |                                                                                                                            | Pass |
| 4.5.2 | Temperature tests                         | (see appended table 4.5)                                                                                                   | Pass |
|       | Normal load condition per Annex L ..... : | Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established. | -    |
| 4.5.3 | Temperature limits for materials          |                                                                                                                            | Pass |
| 4.5.4 | Touch temperature limits                  |                                                                                                                            | Pass |
| 4.5.5 | Resistance to abnormal heat..... :        |                                                                                                                            | N/A  |

|         |                                                     |                              |     |
|---------|-----------------------------------------------------|------------------------------|-----|
| 4.6     | <b>Openings in enclosures</b>                       |                              | N/A |
| 4.6.1   | Top and side openings                               | To be determined in end use. | N/A |
|         | Dimensions (mm) ..... :                             |                              | -   |
| 4.6.2   | Bottoms of fire enclosures                          |                              | N/A |
|         | Construction of the bottom, dimensions (mm)..... :  |                              | -   |
| 4.6.3   | Doors or covers in fire enclosures                  |                              | N/A |
| 4.6.4   | Openings in transportable equipment                 |                              | N/A |
| 4.6.4.1 | Constructional design measures                      |                              | N/A |
|         | Dimensions (mm) ..... :                             |                              | -   |
| 4.6.4.2 | Evaluation measures for larger openings             |                              | N/A |
| 4.6.4.3 | Use of metallized parts                             |                              | N/A |
| 4.6.5   | Adhesives for constructional purposes               |                              | N/A |
|         | Conditioning temperature (°C), time (weeks) ..... : |                              | -   |

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|         |                                                                        |                                                                                                                                                                                                       |      |
|---------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 4.7     | <b>Resistance to fire</b>                                              |                                                                                                                                                                                                       | Pass |
| 4.7.1   | Reducing the risk of ignition and spread of flame                      |                                                                                                                                                                                                       | N/A  |
|         | Method 1, selection and application of components wiring and materials |                                                                                                                                                                                                       | Pass |
|         | Method 2, application of all of simulated fault condition tests        |                                                                                                                                                                                                       | N/A  |
| 4.7.2   | Conditions for a fire enclosure                                        | Shall be evaluated in the end product.                                                                                                                                                                | N/A  |
| 4.7.2.1 | Parts requiring a fire enclosure                                       |                                                                                                                                                                                                       | N/A  |
| 4.7.2.2 | Parts not requiring a fire enclosure                                   |                                                                                                                                                                                                       | N/A  |
| 4.7.3   | Materials                                                              |                                                                                                                                                                                                       | Pass |
| 4.7.3.1 | General                                                                |                                                                                                                                                                                                       | Pass |
| 4.7.3.2 | Materials for fire enclosures                                          | See 4.7.2                                                                                                                                                                                             | N/A  |
| 4.7.3.3 | Materials for components and other parts outside fire enclosures       |                                                                                                                                                                                                       | N/A  |
| 4.7.3.4 | Materials for components and other parts inside fire enclosures        | - All internal materials are min. V-2 or are mounted on a PWB min. V-1;<br><br>- All Internal wiring is insulated with PVC, TFE, PTFE, FEP, neoprene, polyimide or marked "VW-1" or "FT-1" or better; | Pass |
| 4.7.3.5 | Materials for air filter assemblies                                    |                                                                                                                                                                                                       | N/A  |
| 4.7.3.6 | Materials used in high-voltage components                              |                                                                                                                                                                                                       | N/A  |

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|         |                                                                                                                 |  |      |
|---------|-----------------------------------------------------------------------------------------------------------------|--|------|
| 5       | <b>ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</b>                                                |  | Pass |
| 5.1     | Touch current and protective conductor current                                                                  |  | N/A  |
| 5.1.1   | General                                                                                                         |  | N/A  |
| 5.1.2   | Configuration of equipment under test (EUT)                                                                     |  | N/A  |
| 5.1.2.1 | Single connection to an a.c. mains supply                                                                       |  | N/A  |
| 5.1.2.2 | Redundant multiple connections to an a.c. mains supply                                                          |  | N/A  |
| 5.1.2.3 | Simultaneous multiple connections to an a.c. mains supply                                                       |  | N/A  |
| 5.1.3   | Test circuit                                                                                                    |  | N/A  |
| 5.1.4   | Application of measuring instrument                                                                             |  | N/A  |
| 5.1.5   | Test procedure                                                                                                  |  | N/A  |
| 5.1.6   | Test measurements                                                                                               |  | N/A  |
|         | Supply voltage (V) .....                                                                                        |  | -    |
|         | Measured touch current (mA) .....                                                                               |  | -    |
|         | Max. allowed touch current (mA) .....                                                                           |  | -    |
|         | Measured protective conductor current (mA) .....                                                                |  | -    |
|         | Max. allowed protective conductor current (mA) ...                                                              |  | -    |
| 5.1.7   | Equipment with touch current exceeding 3,5 mA                                                                   |  | N/A  |
| 5.1.7.1 | General .....                                                                                                   |  | N/A  |
| 5.1.7.2 | Simultaneous multiple connections to the supply                                                                 |  | N/A  |
| 5.1.8   | Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks |  | N/A  |
| 5.1.8.1 | Limitation of the touch current to a telecommunication network or to a cable distribution system                |  | N/A  |
|         | Supply voltage (V) .....                                                                                        |  | -    |
|         | Measured touch current (mA) .....                                                                               |  | -    |
|         | Max. allowed touch current (mA) .....                                                                           |  | -    |
| 5.1.8.2 | Summation of touch currents from telecommunication networks                                                     |  | N/A  |
|         | a) EUT with earthed telecommunication ports .....                                                               |  | N/A  |
|         | b) EUT whose telecommunication ports have no reference to protective earth                                      |  | N/A  |

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|       |                          |                      |     |
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| 5.2   | <b>Electric strength</b> |                      | N/A |
| 5.2.1 | General                  | Class III equipment. | N/A |
| 5.2.2 | Test procedure           |                      | N/A |

|         |                                                                 |                                                                                             |      |
|---------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|
| 5.3     | <b>Abnormal operating and fault conditions</b>                  |                                                                                             | Pass |
| 5.3.1   | Protection against overload and abnormal operation              |                                                                                             | N/A  |
| 5.3.2   | Motors                                                          |                                                                                             | N/A  |
| 5.3.3   | Transformers                                                    |                                                                                             | N/A  |
| 5.3.4   | Functional insulation..... :                                    | Functional insulation shall comply with the requirements (c).                               | Pass |
| 5.3.5   | Electromechanical components                                    |                                                                                             | N/A  |
| 5.3.6   | Audio amplifiers in ITE..... :                                  |                                                                                             | N/A  |
| 5.3.7   | Simulation of faults                                            | Necessity of testing and compliance of evaluation shall be investigated in the end product. | N/A  |
| 5.3.8   | Unattended equipment                                            |                                                                                             | N/A  |
| 5.3.9   | Compliance criteria for abnormal operating and fault conditions |                                                                                             | N/A  |
| 5.3.9.1 | During the tests                                                |                                                                                             | N/A  |
| 5.3.9.2 | After the tests                                                 |                                                                                             | N/A  |

|         |                                                                                                                                               |  |     |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| 6       | <b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>                                                                                               |  | N/A |
| 6.1     | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment |  | N/A |
| 6.1.1   | Protection from hazardous voltages                                                                                                            |  | N/A |
| 6.1.2   | Separation of the telecommunication network from earth                                                                                        |  | N/A |
| 6.1.2.1 | Requirements                                                                                                                                  |  | N/A |
|         | Supply voltage (V)..... :                                                                                                                     |  | -   |
|         | Current in the test circuit (mA)..... :                                                                                                       |  | -   |
| 6.1.2.2 | Exclusions..... :                                                                                                                             |  | N/A |

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|         |                                                                                      |  |     |
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| 6.2     | <b>Protection of equipment users from overvoltages on telecommunication networks</b> |  | N/A |
| 6.2.1   | Separation requirements                                                              |  | N/A |
| 6.2.2   | Electric strength test procedure                                                     |  | N/A |
| 6.2.2.1 | Impulse test                                                                         |  | N/A |
| 6.2.2.2 | Steady-state test                                                                    |  | N/A |
| 6.2.2.3 | Compliance criteria                                                                  |  | N/A |

|     |                                                                           |  |     |
|-----|---------------------------------------------------------------------------|--|-----|
| 6.3 | <b>Protection of the telecommunication wiring system from overheating</b> |  | N/A |
|     | Max. output current (A) .....                                             |  | -   |
|     | Current limiting method .....                                             |  | -   |

|       |                                                                                                                                                         |  |     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| 7     | <b>CONNECTION TO CABLE DISTRIBUTION SYSTEMS</b>                                                                                                         |  | N/A |
| 7.1   | General                                                                                                                                                 |  | N/A |
| 7.2   | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment |  | N/A |
| 7.3   | Protection of equipment users from overvoltages on the cable distribution system                                                                        |  | N/A |
| 7.4   | Insulation between primary circuits and cable distribution systems                                                                                      |  | N/A |
| 7.4.1 | General                                                                                                                                                 |  | N/A |
| 7.4.2 | Voltage surge test                                                                                                                                      |  | N/A |
| 7.4.3 | Impulse test                                                                                                                                            |  | N/A |

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                                                                                                                           | Result - Remark | Verdict |
| A           | <b>ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE</b>                                                                                                                                        |                 | N/A     |
| A.1         | Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)                                                    |                 | N/A     |
| A.1.1       | Samples..... :                                                                                                                                                                               |                 | -       |
|             | Wall thickness (mm) ..... :                                                                                                                                                                  |                 | -       |
| A.1.2       | Conditioning of samples; temperature (°C) ..... :                                                                                                                                            |                 | N/A     |
| A.1.3       | Mounting of samples ..... :                                                                                                                                                                  |                 | N/A     |
| A.1.4       | Test flame (see IEC 60695-11-3)                                                                                                                                                              |                 | N/A     |
|             | Flame A, B, C or D ..... :                                                                                                                                                                   |                 | N/A     |
| A.1.5       | Test procedure                                                                                                                                                                               |                 | N/A     |
| A.1.6       | Compliance criteria                                                                                                                                                                          |                 | N/A     |
|             | Sample 1 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 2 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 3 burning time (s) ..... :                                                                                                                                                            |                 | -       |
| A.2         | Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4) |                 | N/A     |
| A.2.1       | Samples, material..... :                                                                                                                                                                     |                 | -       |
|             | Wall thickness (mm) ..... :                                                                                                                                                                  |                 | -       |
| A.2.2       | Conditioning of samples; temperature (°C) ..... :                                                                                                                                            |                 | N/A     |
| A.2.3       | Mounting of samples ..... :                                                                                                                                                                  |                 | N/A     |
| A.2.4       | Test flame (see IEC 60695-11-4)                                                                                                                                                              |                 | N/A     |
|             | Flame A, B or C ..... :                                                                                                                                                                      |                 | -       |
| A.2.5       | Test procedure                                                                                                                                                                               |                 | N/A     |
| A.2.6       | Compliance criteria                                                                                                                                                                          |                 | N/A     |
|             | Sample 1 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 2 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 3 burning time (s) ..... :                                                                                                                                                            |                 | -       |
| A.2.7       | Alternative test acc. to IEC 60695-11-5, cl. 5 and 9                                                                                                                                         |                 | N/A     |
|             | Sample 1 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 2 burning time (s) ..... :                                                                                                                                                            |                 | -       |
|             | Sample 3 burning time (s) ..... :                                                                                                                                                            |                 | -       |
| A.3         | Hot flaming oil test (see 4.6.2)                                                                                                                                                             |                 | N/A     |
| A.3.1       | Mounting of samples                                                                                                                                                                          |                 | N/A     |
| A.3.2       | Test procedure                                                                                                                                                                               |                 | N/A     |

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|       |                      |  |     |
|-------|----------------------|--|-----|
| A.3.3 | Compliance criterion |  | N/A |
|-------|----------------------|--|-----|

|       |                                                                               |  |     |
|-------|-------------------------------------------------------------------------------|--|-----|
| B     | <b>ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)</b> |  | N/A |
| B.1   | General requirements                                                          |  | N/A |
|       | Position .....                                                                |  | -   |
|       | Manufacturer .....                                                            |  | -   |
|       | Type .....                                                                    |  | -   |
|       | Rated values .....                                                            |  | -   |
| B.2   | Test conditions                                                               |  | N/A |
| B.3   | Maximum temperatures                                                          |  | N/A |
| B.4   | Running overload test                                                         |  | N/A |
| B.5   | Locked-rotor overload test                                                    |  | N/A |
|       | Test duration (days) .....                                                    |  | -   |
|       | Electric strength test: test voltage (V) .....                                |  | -   |
| B.6   | Running overload test for d.c. motors in secondary circuits                   |  | N/A |
| B.6.1 | General                                                                       |  | N/A |
| B.6.2 | Test procedure                                                                |  | N/A |
| B.6.3 | Alternative test procedure                                                    |  | N/A |
| B.6.4 | Electric strength test; test voltage (V) .....                                |  | N/A |
| B.7   | Locked-rotor overload test for d.c. motors in secondary circuits              |  | N/A |
| B.7.1 | General                                                                       |  | N/A |
| B.7.2 | Test procedure                                                                |  | N/A |
| B.7.3 | Alternative test procedure                                                    |  | N/A |
| B.7.4 | Electric strength test; test voltage (V) .....                                |  | N/A |
| B.8   | Test for motors with capacitors                                               |  | N/A |
| B.9   | Test for three-phase motors                                                   |  | N/A |
| B.10  | Test for series motors                                                        |  | N/A |
|       | Operating voltage (V) .....                                                   |  | -   |

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| Clause      | Requirement + Test                                                                      | Result - Remark | Verdict |
| C           | <b>ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)</b>                                      |                 | N/A     |
|             | Position .....                                                                          |                 | -       |
|             | Manufacturer .....                                                                      |                 | -       |
|             | Type .....                                                                              |                 | -       |
|             | Rated values .....                                                                      |                 | -       |
|             | Method of protection .....                                                              |                 | -       |
| C.1         | Overload test                                                                           |                 | N/A     |
| C.2         | Insulation                                                                              |                 | N/A     |
|             | Protection from displacement of windings .....                                          |                 | N/A     |
| D           | <b>ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)</b>               |                 | N/A     |
| D.1         | Measuring instrument                                                                    |                 | N/A     |
| D.2         | Alternative measuring instrument                                                        |                 | N/A     |
| E           | <b>ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)</b>                              |                 | N/A     |
| F           | <b>ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)</b> |                 | N/A     |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|       |                                                                       |  |     |
|-------|-----------------------------------------------------------------------|--|-----|
| G     | <b>ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES</b> |  | N/A |
| G.1   | Clearances                                                            |  | N/A |
| G.1.1 | General                                                               |  | N/A |
| G.1.2 | Summary of the procedure for determining minimum clearances           |  | N/A |
| G.2   | Determination of mains transient voltage (V)                          |  | N/A |
| G.2.1 | AC mains supply .....                                                 |  | N/A |
| G.2.2 | Earthed d.c. mains supply .....                                       |  | N/A |
| G.2.3 | Unearthed d.c. mains supply .....                                     |  | N/A |
| G.2.4 | Battery operation .....                                               |  | N/A |
| G.3   | Determination of telecommunication network transient voltage (V) :    |  | N/A |
| G.4   | Determination of required withstand voltage (V)                       |  | N/A |
| G.4.1 | Mains transients and internal repetitive peaks .....                  |  | N/A |
| G.4.2 | Transients from telecommunication networks .....                      |  | N/A |
| G.4.3 | Combination of transients                                             |  | N/A |
| G.4.4 | Transients from cable distribution systems                            |  | N/A |
| G.5   | Measurement of transient voltages (V)                                 |  | N/A |
|       | a) Transients from a mains supply                                     |  | N/A |
|       | For an a.c. mains supply                                              |  | N/A |
|       | For a d.c. mains supply                                               |  | N/A |
|       | b) Transients from a telecommunication network                        |  | N/A |
| G.6   | Determination of minimum clearances                                   |  | N/A |
| H     | <b>ANNEX H, IONIZING RADIATION (see 4.3.13)</b>                       |  | N/A |
| J     | <b>ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)</b>     |  | N/A |
|       | Metal(s) used .....                                                   |  | -   |

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| K   | <b>ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)</b>       |  | N/A |
| K.1 | Making and breaking capacity                                 |  | N/A |
| K.2 | Thermostat reliability; operating voltage (V)..... :         |  | N/A |
| K.3 | Thermostat endurance test; operating voltage (V) :           |  | N/A |
| K.4 | Temperature limiter endurance; operating voltage (V) ..... : |  | N/A |
| K.5 | Thermal cut-out reliability                                  |  | N/A |
| K.6 | Stability of operation                                       |  | N/A |

|     |                                                                                                                |  |     |
|-----|----------------------------------------------------------------------------------------------------------------|--|-----|
| L   | <b>ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)</b> |  | N/A |
| L.1 | Typewriters                                                                                                    |  | N/A |
| L.2 | Adding machines and cash registers                                                                             |  | N/A |
| L.3 | Erasers                                                                                                        |  | N/A |
| L.4 | Pencil sharpeners                                                                                              |  | N/A |
| L.5 | Duplicators and copy machines                                                                                  |  | N/A |
| L.6 | Motor-operated files                                                                                           |  | N/A |
| L.7 | Other business equipment                                                                                       |  | N/A |

|         |                                                                    |  |     |
|---------|--------------------------------------------------------------------|--|-----|
| M       | <b>ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)</b> |  | N/A |
| M.1     | Introduction                                                       |  | N/A |
| M.2     | Method A                                                           |  | N/A |
| M.3     | Method B                                                           |  | N/A |
| M.3.1   | Ringing signal                                                     |  | N/A |
| M.3.1.1 | Frequency (Hz) ..... :                                             |  | -   |
| M.3.1.2 | Voltage (V) ..... :                                                |  | -   |
| M.3.1.3 | Cadence; time (s), voltage (V) ..... :                             |  | -   |
| M.3.1.4 | Single fault current (mA) ..... :                                  |  | -   |
| M.3.2   | Tripping device and monitoring voltage..... :                      |  | N/A |
| M.3.2.1 | Conditions for use of a tripping device or a monitoring voltage    |  | N/A |
| M.3.2.2 | Tripping device                                                    |  | N/A |
| M.3.2.3 | Monitoring voltage (V) ..... :                                     |  | N/A |

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| Clause      | Requirement + Test                                                                                             | Result - Remark | Verdict |
| N           | <b>ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)</b> |                 | N/A     |
| N.1         | ITU-T impulse test generators                                                                                  |                 | N/A     |
| N.2         | IEC 60065 impulse test generator                                                                               |                 | N/A     |
| P           | <b>ANNEX P, NORMATIVE REFERENCES</b>                                                                           |                 | Pass    |
| Q           | <b>ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)</b>                                               |                 | N/A     |
|             | - Preferred climatic categories..... :                                                                         |                 | N/A     |
|             | - Maximum continuous voltage..... :                                                                            |                 | N/A     |
|             | - Combination Pulse current..... :                                                                             |                 | N/A     |
|             | Body of the VDR Test according to IEC60695-11-5<br>..... :                                                     |                 | N/A     |
|             | Body of the VDR. Flammability class of material ( min V-1) ..... :                                             |                 | N/A     |
| R           | <b>ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES</b>                                        |                 | N/A     |
| R.1         | Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)                              |                 | N/A     |
| R.2         | Reduced clearances (see 2.10.3)                                                                                |                 | N/A     |
| S           | <b>ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)</b>                                                    |                 | N/A     |
| S.1         | Test equipment                                                                                                 |                 | N/A     |
| S.2         | Test procedure                                                                                                 |                 | N/A     |
| S.3         | Examples of waveforms during impulse testing                                                                   |                 | N/A     |
| T           | <b>ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)</b>                                    |                 | N/A     |
|             | ..... :                                                                                                        |                 | -       |
| U           | <b>ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)</b>                  |                 | N/A     |
|             | ..... :                                                                                                        |                 | -       |
| V           | <b>ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)</b>                                                      |                 | N/A     |
| V.1         | Introduction                                                                                                   |                 | N/A     |
| V.2         | TN power distribution systems                                                                                  |                 | N/A     |

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| Clause      | Requirement + Test                                                           | Result - Remark | Verdict |
| W           | <b>ANNEX W, SUMMATION OF TOUCH CURRENTS</b>                                  |                 | N/A     |
| W.1         | Touch current from electronic circuits                                       |                 | N/A     |
| W.1.1       | Floating circuits                                                            |                 | N/A     |
| W.1.2       | Earthed circuits                                                             |                 | N/A     |
| W.2         | Interconnection of several equipments                                        |                 | N/A     |
| W.2.1       | Isolation                                                                    |                 | N/A     |
| W.2.2       | Common return, isolated from earth                                           |                 | N/A     |
| W.2.3       | Common return, connected to protective earth                                 |                 | N/A     |
| X           | <b>ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)</b> |                 | N/A     |
| X.1         | Determination of maximum input current                                       |                 | N/A     |
| X.2         | Overload test procedure                                                      |                 | N/A     |
| Y           | <b>ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)</b>           |                 | N/A     |
| Y.1         | Test apparatus..... :                                                        |                 | N/A     |
| Y.2         | Mounting of test samples..... :                                              |                 | N/A     |
| Y.3         | Carbon-arc light-exposure apparatus..... :                                   |                 | N/A     |
| Y.4         | Xenon-arc light-exposure apparatus ..... :                                   |                 | N/A     |
| Z           | <b>ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)</b>         |                 | N/A     |
| AA          | <b>ANNEX AA, MANDREL TEST (see 2.10.5.8)</b>                                 |                 | N/A     |
| BB          | <b>ANNEX BB, CHANGES IN THE SECOND EDITION</b>                               |                 | N/A     |
| CC          | <b>ANNEX CC, EVALUATION OF INTEGRATED CIRCUIT (IC) CURRENT LIMITERS</b>      |                 | N/A     |
| CC.1        | General                                                                      |                 | N/A     |
| CC.2        | Test program 1 ..... :                                                       |                 | N/A     |
| CC.3        | Test program 2 ..... :                                                       |                 | N/A     |
| CC.4        | Test program 3 ..... :                                                       |                 | N/A     |
| CC.5        | Compliance..... :                                                            |                 | N/A     |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|      |                                                                                |  |     |
|------|--------------------------------------------------------------------------------|--|-----|
| DD   | <b>ANNEX DD, REQUIREMENTS FOR THE MOUNTING MEANS OF RACK-MOUNTED EQUIPMENT</b> |  | N/A |
| DD.1 | General                                                                        |  | N/A |
| DD.2 | Mechanical strength test, variable N .....                                     |  | N/A |
| DD.3 | Mechanical strength test, 250 N, including end stops .....                     |  | N/A |
| DD.4 | Compliance.....                                                                |  | N/A |

|      |                                                                                  |  |     |
|------|----------------------------------------------------------------------------------|--|-----|
| EE   | <b>ANNEX EE, HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS</b>              |  | N/A |
| EE.1 | General                                                                          |  | N/A |
| EE.2 | Markings and instructions                                                        |  | N/A |
|      | Use of markings or symbols .....                                                 |  | N/A |
|      | Information of user instructions, maintenance and/or servicing instructions..... |  | N/A |
| EE.3 | Inadvertent reactivation test .....                                              |  | N/A |
| EE.4 | Disconnection of power to hazardous moving parts                                 |  | N/A |
|      | Use of markings or symbols .....                                                 |  | N/A |
| EE.5 | Protection against hazardous moving parts .....                                  |  | N/A |
|      | Test with test finger (Figure 2A)                                                |  | N/A |
|      | Test with wedge probe (Figure EE1 and EE2) .....                                 |  | N/A |

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| 1.5.1                                                                                  | <b>TABLE: list of critical components</b> |                                                            |                                          |                            |                                     | Pass |
|----------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------|------------------------------------------|----------------------------|-------------------------------------|------|
| object/part or Description                                                             | manufacturer/ trademark                   | type/model                                                 | technical data                           | standard (Edition or year) | mark(s) of conformity <sup>1)</sup> |      |
| 01. Panel                                                                              | AU Optronics Corp.                        | G215HVNZZZZ (Z may be any alphanumeric character or blank) | TFT Type, 22"                            | --                         | --, --                              |      |
| 02. PWB                                                                                | Various                                   | Various                                                    | Minimum V-1 or better, 105 degree C min. | UL 796                     | UL, --                              |      |
| Supplementary information:                                                             |                                           |                                                            |                                          |                            |                                     |      |
| <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039. |                                           |                                                            |                                          |                            |                                     |      |
| The CBTL has verified the component information.                                       |                                           |                                                            |                                          |                            |                                     |      |

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|------------------------------------------------------------------|---------------------------------------|--|--|-----|
| 1.5.1                                                            | <b>TABLE: Opto Electronic Devices</b> |  |  | N/A |
| Manufacturer                                                     |                                       |  |  |     |
| Type                                                             |                                       |  |  |     |
| Separately tested                                                |                                       |  |  |     |
| Bridging insulation                                              |                                       |  |  |     |
| External creepage distance                                       |                                       |  |  |     |
| Internal creepage distance                                       |                                       |  |  |     |
| Distance through insulation                                      |                                       |  |  |     |
| Tested under the following conditions                            |                                       |  |  |     |
| Input                                                            |                                       |  |  |     |
| Output                                                           |                                       |  |  |     |
| supplementary information:                                       |                                       |  |  |     |
| Additional devices may be described in Enclosure - Miscellaneous |                                       |  |  |     |

|        |                                                      |             |       |        |            |                                                              |      |
|--------|------------------------------------------------------|-------------|-------|--------|------------|--------------------------------------------------------------|------|
| 1.6.2  | <b>TABLE: Electrical data (in normal conditions)</b> |             |       |        |            |                                                              | Pass |
| U (V)  | I (A)                                                | I rated (A) | P (W) | Fuse # | I fuse (A) | condition/status                                             |      |
| --     | --                                                   | --          | --    | --     | --         | For LED drive board, Mfr.: AU OPTRONICS CORP; P/N: 21G01-DXX |      |
| 12 Vdc | 1.41                                                 | 2.08        | 16.92 | --     | --         | Maximum normal load                                          |      |

|                            |                                  |                    |                    |                |  |     |
|----------------------------|----------------------------------|--------------------|--------------------|----------------|--|-----|
| 2.1.1.5 c) 1)              | <b>TABLE: max. V, A, VA test</b> |                    |                    |                |  | N/A |
| Voltage (rated) (V)        | Current (rated) (A)              | Voltage (max.) (V) | Current (max.) (A) | VA (max.) (VA) |  |     |
|                            |                                  |                    |                    |                |  |     |
| supplementary information: |                                  |                    |                    |                |  |     |

|                            |                      |               |              |     |
|----------------------------|----------------------|---------------|--------------|-----|
| 2.1.1.5 c)<br>2)           | TABLE: stored energy |               |              | N/A |
| Capacitance (μF)           |                      | Voltage U (V) | Energy E (J) |     |
|                            |                      |               |              |     |
| supplementary information: |                      |               |              |     |
|                            |                      |               |              |     |

|                              |                                                                          |                                     |        |                             |     |
|------------------------------|--------------------------------------------------------------------------|-------------------------------------|--------|-----------------------------|-----|
| 2.2                          | <b>TABLE: evaluation of voltage limiting components in SELV circuits</b> |                                     |        |                             | N/A |
| Component (measured between) |                                                                          | max. voltage (V) (normal operation) |        | Voltage limiting components |     |
|                              |                                                                          | V peak                              | V d.c. |                             |     |
|                              |                                                                          |                                     |        |                             |     |

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| Fault test performed on voltage limiting components | Voltage measured (V) in SELV circuits (V peak or V d.c.) |
| supplementary information:                          |                                                          |

| 2.5                                                         | <b>TABLE: Limited power sources</b> |         |         |       |       | N/A   |
|-------------------------------------------------------------|-------------------------------------|---------|---------|-------|-------|-------|
| Circuit output tested:                                      |                                     |         |         |       |       |       |
| Note: Measured Uoc (V) with all load circuits disconnected: |                                     |         |         |       |       |       |
| Components                                                  | Sample No.                          | Uoc (V) | Isc (A) |       | VA    |       |
|                                                             |                                     |         | Meas.   | Limit | Meas. | Limit |
| Normal condition                                            |                                     |         |         |       |       |       |
| Single fault: _____                                         |                                     |         |         |       |       |       |
|                                                             |                                     |         |         |       |       |       |
| supplementary information:                                  |                                     |         |         |       |       |       |
| Sc=short circuit, Oc-Open circuit                           |                                     |         |         |       |       |       |

|                                                                  |                                    |                 |                  |          |      |
|------------------------------------------------------------------|------------------------------------|-----------------|------------------|----------|------|
| 2.10.2                                                           | TABLE: working voltage measurement |                 |                  |          | Pass |
| Location                                                         |                                    | RMS voltage (V) | Peak voltage (V) | Comments |      |
| Before L5 to Earth                                               |                                    | --              | 12.1             | --       |      |
| After L5 to Earth                                                |                                    | --              | 36               | --       |      |
| After D9 to Earth                                                |                                    | --              | 32               | --       |      |
| supplementary information:                                       |                                    |                 |                  |          |      |
| The following terminals were connected to earth: metal enclosure |                                    |                 |                  |          |      |

| 2.10.3 and 2.10.4                                        | <b>TABLE: Clearance and creepage distance measurements</b> |            |              |                  |         |                  | N/A     |
|----------------------------------------------------------|------------------------------------------------------------|------------|--------------|------------------|---------|------------------|---------|
| Clearance (cl) and creepage distance (cr) at/of/between: |                                                            | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) |
|                                                          |                                                            |            |              |                  |         |                  |         |
| Functional:                                              |                                                            |            |              |                  |         |                  |         |
| Clearance (cl) and creepage distance (cr) at/of/between: |                                                            | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) |
|                                                          |                                                            |            |              |                  |         |                  |         |
| Basic/supplementary:                                     |                                                            |            |              |                  |         |                  |         |
| Clearance (cl) and creepage distance (cr) at/of/between: |                                                            | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) |
|                                                          |                                                            |            |              |                  |         |                  |         |
| Reinforced:                                              |                                                            |            |              |                  |         |                  |         |
| Clearance (cl) and creepage distance (cr) at/of/between: |                                                            | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) |
|                                                          |                                                            |            |              |                  |         |                  |         |
| supplementary information:                               |                                                            |            |              |                  |         |                  |         |

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|                                          |                                                        |          |                  |                   |          |
|------------------------------------------|--------------------------------------------------------|----------|------------------|-------------------|----------|
| 2.10.5                                   | <b>TABLE: Distance through insulation measurements</b> |          |                  |                   | N/A      |
| Distance through insulation (DTI) at/of: | Upeak (V)                                              | Urms (V) | Test voltage (V) | Required DTI (mm) | DTI (mm) |
|                                          |                                                        |          |                  |                   |          |
| supplementary information:               |                                                        |          |                  |                   |          |
|                                          |                                                        |          |                  |                   |          |

|                                                                                       |                            |               |                        |                        |               |               |               |                   |               |  |
|---------------------------------------------------------------------------------------|----------------------------|---------------|------------------------|------------------------|---------------|---------------|---------------|-------------------|---------------|--|
| 4.3.8                                                                                 | TABLE: Batteries           |               |                        |                        |               |               |               |                   | N/A           |  |
| The tests of 4.3.8 are applicable only when appropriate battery data is not available |                            |               |                        |                        |               |               |               |                   |               |  |
| Is it possible to install the battery in a reverse polarity position?                 |                            |               |                        |                        |               |               |               |                   |               |  |
|                                                                                       | Non-rechargeable batteries |               |                        | Rechargeable batteries |               |               |               |                   |               |  |
|                                                                                       | Discharging                |               | Unintentional charging | Charging               |               | Discharging   |               | Reversed charging |               |  |
|                                                                                       | Meas. current              | Manuf. specs. |                        | Meas. current          | Manuf. specs. | Meas. current | Manuf. specs. | Meas. current     | Manuf. specs. |  |
|                                                                                       |                            |               |                        |                        |               |               |               |                   |               |  |
| Test results:                                                                         |                            |               |                        |                        |               |               |               |                   | Verdict       |  |
| - Chemical leaks                                                                      |                            |               |                        |                        |               |               |               |                   |               |  |
| - Explosion of the battery                                                            |                            |               |                        |                        |               |               |               |                   |               |  |
| - Emission of flame or expulsion of molten metal                                      |                            |               |                        |                        |               |               |               |                   |               |  |
| - Electric strength tests of equipment after completion of tests                      |                            |               |                        |                        |               |               |               |                   |               |  |
| supplementary information:                                                            |                            |               |                        |                        |               |               |               |                   |               |  |
|                                                                                       |                            |               |                        |                        |               |               |               |                   |               |  |

|                                                                                         |                  |  |  |     |
|-----------------------------------------------------------------------------------------|------------------|--|--|-----|
| 4.3.8                                                                                   | TABLE: Batteries |  |  | N/A |
| Battery category (lithium, NiMh, NiCad, lithium ion, etc.)                              |                  |  |  |     |
| Manufacturer                                                                            |                  |  |  |     |
| Type / model                                                                            |                  |  |  |     |
| Voltage                                                                                 |                  |  |  |     |
| Capacity (mAh)                                                                          |                  |  |  |     |
| Tested and Certified by (incl. Ref. No.)                                                |                  |  |  |     |
| Circuit protection diagram (Refer to indicated supplement of Enclosure - Miscellaneous) |                  |  |  |     |
|                                                                                         |                  |  |  |     |
| MARKINGS AND INSTRUCTIONS (1.7.12, 1.7.15)                                              |                  |  |  |     |
| Location of replaceable battery                                                         |                  |  |  |     |
| Language(s)                                                                             |                  |  |  |     |
| Close to the battery                                                                    |                  |  |  |     |
| In the servicing instructions                                                           |                  |  |  |     |
| In the operating instructions                                                           |                  |  |  |     |
| In the operating instructions                                                           |                  |  |  |     |
| supplementary information:                                                              |                  |  |  |     |
| Additional devices may be described in Enclosure - Miscellaneous                        |                  |  |  |     |

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|-------------|--------------------|-----------------|---------|
| Clause      | Requirement + Test | Result - Remark | Verdict |

|                                                                                                                                                                                                                                                              |                                    |           |             |           |           |           |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|-------------|-----------|-----------|-----------|-------------------|
| 4.5                                                                                                                                                                                                                                                          | <b>TABLE: thermal requirements</b> |           |             |           |           |           | Pass              |
|                                                                                                                                                                                                                                                              | Supply voltage (V):                | 12 Vdc    | 12 Vdc      | --        | --        | --        | ---               |
|                                                                                                                                                                                                                                                              | Ambient Tmin (°C):                 | See below | See below   | --        | --        | --        | ---               |
|                                                                                                                                                                                                                                                              | Ambient Tmax (°C):                 | --        | --          | --        | --        | --        | ---               |
| Maximum measured temperature T of part/at:                                                                                                                                                                                                                   |                                    | T (°C) #1 | T (°C) #2   | T (°C) #3 | T (°C) #4 | T (°C) #5 | Allowed Tmax (°C) |
| For LED drive board, Mfr.: AU OPTRONICS CORP; P/N: 21G01-DXX                                                                                                                                                                                                 |                                    | --        | --          | --        | --        | --        | --                |
| 01. L5                                                                                                                                                                                                                                                       |                                    | 33.8      | 61.5        | --        | --        | --        | 105               |
| 02. PCB Near L5                                                                                                                                                                                                                                              |                                    | 32.9      | 60.6        | --        | --        | --        | 105               |
| 03. U712                                                                                                                                                                                                                                                     |                                    | 34.9      | 62.6        | --        | --        | --        | 105               |
| 04. D9                                                                                                                                                                                                                                                       |                                    | 35.2      | 62.9        | --        | --        | --        | 105               |
| 05. C752                                                                                                                                                                                                                                                     |                                    | 31.0      | 58.7        | --        | --        | --        | 85                |
| 06. U14                                                                                                                                                                                                                                                      |                                    | 33.5      | 61.2        | --        | --        | --        | 105               |
| 07. Panel Internal Metal Part                                                                                                                                                                                                                                |                                    | 35.4      | 63.1        | --        | --        | --        | --                |
| 08. Panel External Surface Part                                                                                                                                                                                                                              |                                    | 29.3      | 57.0        | --        | --        | --        | 80                |
| 09. Ambient                                                                                                                                                                                                                                                  |                                    | 22.3      | Shift To 50 | --        | --        | --        | --                |
| temperature T of winding:                                                                                                                                                                                                                                    |                                    | t1 (°C)   | R1 (Ohm)    | t2 (°C)   | R2 (ohm)  | T (°C)    | Allowed Tmax (°C) |
| --                                                                                                                                                                                                                                                           |                                    | --        | --          | --        | --        | --        | --                |
| supplementary information:                                                                                                                                                                                                                                   |                                    |           |             |           |           |           |                   |
| - The temperatures were measured under worst case normal mode defined in 1.2.2.1 and described in 1.6.2 at voltages as described in 1.4.5 - Without specified ambient temperature in users manual, therefore the ambient temperature assumed as 50 degree C. |                                    |           |             |           |           |           |                   |

|                            |                                                  |                           |                          |     |
|----------------------------|--------------------------------------------------|---------------------------|--------------------------|-----|
| 4.5.5                      | TABLE: Ball pressure test of thermoplastic parts |                           |                          | N/A |
|                            | allowed impression diameter (mm) :               | less than or equal to 2.0 |                          | --- |
| part                       |                                                  | test temperature (°C)     | impression diameter (mm) |     |
|                            |                                                  |                           |                          |     |
| supplementary information: |                                                  |                           |                          |     |

|                                                            |                                  |                  |                |                    |          |
|------------------------------------------------------------|----------------------------------|------------------|----------------|--------------------|----------|
| 4.7                                                        | <b>TABLE: Resistance to fire</b> |                  |                |                    | Pass     |
| Part                                                       | Manufacturer of material         | Type of material | Thickness (mm) | Flammability class | Evidence |
| --                                                         | --                               | --               | --             | --                 | --       |
| supplementary information:                                 |                                  |                  |                |                    |          |
| Fire enclosure to be evaluated in end use. See clause 4.7. |                                  |                  |                |                    |          |

|                  |                                         |            |                     |     |
|------------------|-----------------------------------------|------------|---------------------|-----|
| 5.1              | <b>TABLE: touch current measurement</b> |            |                     | N/A |
| Measured between | Measured (mA)                           | Limit (mA) | Comments/conditions |     |
|                  |                                         |            |                     |     |

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| Clause      | Requirement + Test | Result - Remark | Verdict |

|                            |
|----------------------------|
| supplementary information: |
|                            |

|                              |                                                                              |                                              |                     |                       |
|------------------------------|------------------------------------------------------------------------------|----------------------------------------------|---------------------|-----------------------|
| 5.2                          | <b>TABLE: Electric strength tests, impulse tests and voltage surge tests</b> |                                              |                     | N/A                   |
| Test voltage applied between |                                                                              | Voltage shape<br>(AC, DC,<br>impulse, surge) | Test voltage<br>(V) | Breakdown<br>Yes / No |
|                              |                                                                              |                                              |                     |                       |
| Functional:                  |                                                                              |                                              |                     |                       |
| Test voltage applied between |                                                                              | Voltage shape<br>(AC, DC,<br>impulse, surge) | Test voltage<br>(V) | Breakdown<br>Yes / No |
|                              |                                                                              |                                              |                     |                       |
| Basic/supplementary:         |                                                                              |                                              |                     |                       |
| Test voltage applied between |                                                                              | Voltage shape<br>(AC, DC,<br>impulse, surge) | Test voltage<br>(V) | Breakdown<br>Yes / No |
|                              |                                                                              |                                              |                     |                       |
| Reinforced:                  |                                                                              |                                              |                     |                       |
| Test voltage applied between |                                                                              | Voltage shape<br>(AC, DC,<br>impulse, surge) | Test voltage<br>(V) | Breakdown<br>Yes / No |
|                              |                                                                              |                                              |                     |                       |
| supplementary information:   |                                                                              |                                              |                     |                       |
|                              |                                                                              |                                              |                     |                       |

|                                                               |                                      |                       |           |        |                     |             |
|---------------------------------------------------------------|--------------------------------------|-----------------------|-----------|--------|---------------------|-------------|
| 5.3                                                           | <b>TABLE: Fault conditions tests</b> |                       |           |        |                     | Pass        |
| Ambient temperature (°C)                                      |                                      |                       |           |        |                     | ---         |
| Power source for EUT: Manufacturer, model/type, output rating |                                      |                       |           |        |                     | ---         |
| Component No.                                                 | Fault                                | Supply voltage<br>(V) | Test time | Fuse # | Fuse current<br>(A) | Observation |
| --                                                            | --                                   | --                    | --        | --     | --                  | --          |

|      |                            |                                         |                                        |                                        |                                        |                                                |                                              |
|------|----------------------------|-----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|------------------------------------------------|----------------------------------------------|
| C.2  | <b>TABLE: transformers</b> |                                         |                                        |                                        |                                        |                                                | N/A                                          |
| Loc. | Tested insulation          | Working voltage<br>peak / V<br>(2.10.2) | Working voltage<br>rms / V<br>(2.10.2) | Required electric<br>strength<br>(5.2) | Required clearance<br>/ mm<br>(2.10.3) | Required creepage<br>distance / mm<br>(2.10.4) | Required distance<br>thr. insul.<br>(2.10.5) |
|      |                            |                                         |                                        |                                        |                                        |                                                |                                              |

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| Loc.                       | Tested insulation | Test voltage / V             | Measured clearance / mm | Measured creepage dist. / mm | Measured distance thr. insul. / mm; number of layers |
|----------------------------|-------------------|------------------------------|-------------------------|------------------------------|------------------------------------------------------|
|                            |                   |                              |                         |                              |                                                      |
| Transformer type number    |                   | Enclosure - Miscellaneous ID |                         |                              |                                                      |
|                            |                   |                              |                         |                              |                                                      |
| supplementary information: |                   |                              |                         |                              |                                                      |
|                            |                   |                              |                         |                              |                                                      |

## **Enclosure**

### **National Differences**

Argentina  
Australia / New Zealand  
Austria\*\*  
Belarus\*  
Belgium\*\*  
Bulgaria\*\*  
China  
Czech Republic\*\*  
Denmark  
Finland  
France\*\*  
Germany  
Greece\*\*  
Group  
Hungary\*\*  
India\*  
Ireland  
Israel  
Italy\*\*  
Japan  
Korea  
Malaysia\*  
Netherlands\*\*  
Norway  
Poland\*\*  
Portugal\*\*  
Romania\*\*  
Saudi Arabia\*  
Serbia\*\*  
Singapore\*  
Slovakia\*\*  
Slovenia\*\*  
South Africa\*  
Spain  
Sweden  
Switzerland  
USA / Canada  
Ukraine\*  
United Kingdom

\* No National Differences Declared

\*\* Only Group Differences

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Argentina - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                 |  |      |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|
| General                                                                                  | Argentina has national differences declared to 60950-1:2005 + A1:2009.                                                                                                                                                          |  | Pass |
| 1.5.2                                                                                    | Certified plug according to IRAM 2063 (two prong) or IRAM 2073 (three prong) are used in accordance with their ratings                                                                                                          |  | N/A  |
| 1.7.2                                                                                    | Operating/safety instructions made available to the user in Spanish.<br>Product information appears on the product.                                                                                                             |  | N/A  |
| 3.2                                                                                      | Plugs shall be in conformity with IRAM 2063 Standard for Class II and IRAM 2073 Standard for Class I appliances (Resolution 524/98)                                                                                             |  | N/A  |
| 4.3.6                                                                                    | Adapters/Transformers provided with integrated plugs shall be provided with blades which shall meet the geometry of IRAM 2063 standard for Class II appliances or IRAM 2073 standard for Class I appliances (Resolution 524/98) |  | N/A  |
| General                                                                                  | Household power supply sources are 220 V a.c., 50 Hz                                                                                                                                                                            |  | N/A  |

| IEC 60950-1:2005 |                   |                 |         |
|------------------|-------------------|-----------------|---------|
| SubClause        | Difference + Test | Result - Remark | Verdict |

| Australia / New Zealand - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                                    |         |        |         |      |          |                |         |              |  |     |
|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|---------|--------|---------|------|----------|----------------|---------|--------------|--|-----|
| General                                                                                         | Australia has national differences declared for 60950-1:2005 (below).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                | Pass                               |         |        |         |      |          |                |         |              |  |     |
| 1.2.12.201                                                                                      | Addition: POTENTIAL IGNITION SOURCE<br>Possible fault which can starts a fire if the open-circuit voltage measured across an interruption or faulty contact exceeds a value of 50 V (peak) a.c. or d.c. and the product of the peak value of this voltage and the measured r.m.s. current under normal operating conditions exceeds 15VA.<br>Such a faulty contact or interruption in an electrical connection includes those which may occur in conductive patterns on printed boards.<br>Note 201: An electronic protection circuit may be used to prevent such a fault from becoming a POTENTIAL IGNITION SOURCE.<br>Note 202: This definition is from AS/NZS 60065:2003                                                    |                                | N/A                                |         |        |         |      |          |                |         |              |  |     |
| 1.5.1                                                                                           | Add to the end of the first paragraph and in note 1 after the word "standard"; "or the relevant Australian / New Zealand Standard".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                | N/A                                |         |        |         |      |          |                |         |              |  |     |
| 1.5.2                                                                                           | Add the following to the end of the first and third dash items: 'or the relevant Australian/New Zealand Standard'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                | N/A                                |         |        |         |      |          |                |         |              |  |     |
| 3.2.5.1                                                                                         | Replace the first four rows for Table 3B with the following: Sizes of Conductors<br><table><tr><th>Rated Current of Equipment (A)</th><th>Nominal cross-sectional area (mm²)</th></tr><tr><td>0.2 ≤ 3</td><td>0.5 1)</td></tr><tr><td>3 ≤ 7.5</td><td>0.75</td></tr><tr><td>7.5 ≤ 10</td><td>(0.75) 2) 1.00</td></tr><tr><td>10 ≤ 16</td><td>(1,0) 3) 1.5</td></tr></table><br>Replace footnote 1) with the following:<br>1) This nominal cross-sectional area is only allowed for Class II appliances if the length of the power supply cord, measured between the point where the cord or cord guard, enters the appliance, and the entry to the plug, does not exceed 2 m (0.5 mm² three-core supply flexible cords are not | Rated Current of Equipment (A) | Nominal cross-sectional area (mm²) | 0.2 ≤ 3 | 0.5 1) | 3 ≤ 7.5 | 0.75 | 7.5 ≤ 10 | (0.75) 2) 1.00 | 10 ≤ 16 | (1,0) 3) 1.5 |  | N/A |
| Rated Current of Equipment (A)                                                                  | Nominal cross-sectional area (mm²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                                    |         |        |         |      |          |                |         |              |  |     |
| 0.2 ≤ 3                                                                                         | 0.5 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                    |         |        |         |      |          |                |         |              |  |     |
| 3 ≤ 7.5                                                                                         | 0.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                |                                    |         |        |         |      |          |                |         |              |  |     |
| 7.5 ≤ 10                                                                                        | (0.75) 2) 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                |                                    |         |        |         |      |          |                |         |              |  |     |
| 10 ≤ 16                                                                                         | (1,0) 3) 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                |                                    |         |        |         |      |          |                |         |              |  |     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict |
|                  | permitted; see S/NZS 3191).<br>Delete Note 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |
| 4.1.201          | Addition: Display devices used for television purposes<br>Display devices which may be used for television purposes, with a mass of 7 kg or more, shall comply with the requirements for stability and mechanical hazards, including the additional stability requirements for television received, specified in AS/NZS 60065.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 4.3.6            | Replace the third paragraph: Equipment with a plug portion, suitable for insertion into a 10 A 3-pin flat-pin socket-outlet complying with AS/NZS 3112, shall comply with the requirements in AS/NZS 3112 for equipment with integral pins for insertion into socket-outlets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 | N/A     |
| 4.3.13.5         | Add the following to the end of the first paragraph: "or AS/NZS 2211.1"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 4.7              | Add after the clause: For alternative resistance to fire tests, refer to Clause 4.7.201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 4.7.201.1        | Addition: Resistance to fire - Alternative tests<br>General<br>Parts of non-metallic material shall be resistant to ignition and spread of fire. This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames originating from inside the apparatus, or the following:<br><br>(a) Components that are contained in an enclosure having a flammability category of V-0 according to AS/NZS 60695.11.10 and having openings only for the connecting wires filling the openings completely, and for ventilation not exceeding 1 mm in width regardless of length.<br><br>(b) The following parts which would contribute negligible fuel to a fire:<br>- small mechanical parts, the mass of which does not exceed 4 g, such as mounting parts, gears, cams, belts and bearings;<br>- small electrical components, such as capacitors with a volume not exceeding 1,750 mm <sup>3</sup> , integrated circuits, transistors and optocoupler packages, if these components are mounted on |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark | Verdict |
|                  | <p>material of flammability category V-1, or better, according to AS/NZS 60695.11.10.</p> <p>NOTE In considering how to minimize propagation of fire and what 'small parts' are, account should be taken of the cumulative effect of small parts adjacent to each other for the possible effect of propagating fire from one part to another.</p> <p>Compliance shall be checked by the tests of 4.7.201.2, 4.7.201.3, 4.7.201.4 and 4.7.201.5. For the base material of printed boards, compliance shall be checked by the test of 4.7.201.5.</p> <p>The tests shall be carried out on parts of non-metallic material which have been removed from the apparatus. When the glow-wire test is carried out, the parts shall be placed in the same orientation as they would be in normal use.</p> <p>These tests are not carried out on internal wiring.</p> |                 |         |
| 4.7.201.2        | <p>Addition: Testing of non-metallic materials</p> <p>Parts of non-metallic material shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 550°C. Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category FH-3 material. The glow-wire test shall be not carried out on parts of material classified at least FH-3 according to ISO 9772 provided that the sample tested was not thicker than the relevant part.</p>                                                                                                                                                                                                                                                                                     |                 | N/A     |
| 4.7.201.3        | <p>Addition: Testing of insulating materials</p> <p>Parts of insulating material supporting POTENTIAL IGNITION SOURCES shall be subject to the glow-wire test of AS/NZS 60695.2.11 which shall be carried out at 750°C. The test shall be also carried out on other parts of insulating material which are within a distance of 3mm of the connection.</p> <p>NOTE Contacts in components such as switch contacts are considered to be connections.</p> <p>For parts which withstand the glow-wire test but produce a flame, other parts above the connection within the envelope of a vertical cylinder having a</p>                                                                                                                                                                                                                                       |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark | Verdict |
|                  | <p>diameter of 20 mm and a height of 50 mm shall be subjected to the needle-flame test. However, parts shielded by a barrier which meets the needle-flame test shall not be tested. The needle-flame test shall be made in accordance with AS/NZS 60695.11.5 with the following modifications:</p> <p>Clause of<br/>AS/NZS 60695.11.5 Change</p> <p>9 Test procedure</p> <p>9.2 Replace the first paragraph with: The specimen shall be arranged so that the flame can be applied to a vertical or horizontal edge as shown in the examples of figure 1. Replace the second paragraph with: The duration of application of the test flame shall be 30s + 1s.</p> <p>9.3 Replace with: The test shall be made on one specimen. If the specimen does not withstand the test, the test may be repeated on two further specimens, both of which shall then withstand the test.</p> <p>11 Evaluation of test results Replace with: The duration of burning (tb) shall not exceed 30 s. However, for printed circuit boards, it shall not exceed 15 s.</p> <p>The needle-flame test shall not be carried out on parts of material classified as V-0 or V-1 according to AS/NZS 60695.11.10, provided that the sample tested was not thicker than the relevant part.</p> |                 |         |
| 4.7.201.4        | <p>Addition: Testing in the event of non-extinguishing material - If parts, other than enclosures, do not withstand the glow wire tests of 4.7.201.3, by failure to extinguish within 30 s after the removal of the glow-wire tip, the needle-flame test detailed in 4.7.201.3 shall be made on all parts of non-metallic material which are within a distance of 50 mm or which are likely to be impinged upon by flame during the tests of 4.7.201.3. Parts shielded by a separate barrier which meets the needle-flame test need not be tested. NOTE 1 - If the enclosure does not withstand the glow-wire test the equipment is considered to have failed to meet the</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark | Verdict |
|                  | <p>requirements of Clause 4.7.201 without the need for consequential testing. NOTE 2 - If other parts do not withstand the glow-wire test due to ignition of the tissue paper and if this indicates that burning or glowing particles can fall onto an external surface underneath the equipment, the equipment is considered to have failed to meet the requirements of Clause 4.7.201 without the need for consequential testing. NOTE 3 - Parts likely to be impinged upon by the flame are considered to be those within the envelope of a vertical cylinder having a radius of 10 mm and a height equal to the height of the flame, positioned above the point of the material supporting, in contact with, or in close proximity to, connections.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
| 4.7.201.5        | <p>Addition: Testing of printed boards - The base material of printed boards shall be subjected to the needle-flame test of Clause 4.7.201.3. The flame shall be applied to the edge of the board where the heat sink effect is lowest when the board is positioned as in normal use. The flame shall not be applied to an edge, consisting of broken perforations, unless the edge is less than 3 mm from a POTENTIAL IGNITION SOURCE. The test is not carried out if the</p> <ul style="list-style-type: none"> <li>- Printed board does not carry any POTENTIAL IGNITION SOURCE;</li> <li>- Base material of printed boards, on which the available apparent power at a connection exceeds 15 VA operating at a voltage exceeding 50 V and equal or less than 400 V (peak) a.c. or d.c. under normal operating conditions, is of flammability category V-1 or better according to AS/NZS 60695.11.10, or the printed boards are protected by an enclosure meeting the flammability category V-0 according to AS/NZS 60695.11.10, or made of metal, having openings only for connecting wires which fill the openings completely; or</li> <li>- Base material of printed boards, on which the available apparatus power at a connection exceeds 15 VA operating at a voltage exceeding 400 V (peak) a.c. or d.c. under normal operating conditions, and base material of printed boards supporting spark gaps which provides protection against overvoltages, is of flammability category V-0 according to AS/NZS 60695.11.10 or the printed boards are contained in a metal enclosure, having</li> </ul> |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Result - Remark | Verdict |
|                  | <p>openings only for connecting wires which fill the openings completely.</p> <p>Compliance shall be determined using the smallest thickness of the material.</p> <p>NOTE – Available apparent power is the maximum apparent power which can be drawn from the supplying circuit through a resistive load whose value is chosen to maximise the apparent power for more than 2 min when the circuit supplied is disconnected.</p>                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |
| 6.2.2            | For Australia only, delete the first paragraph and Note, and replace with the following: In Australia (not in New Zealand) only, compliance with 6.2.2 is checked by the tests of both 6.2.2.1 and 6.2.2.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |
| 6.2.2.1          | <p>For Australia only, delete the first paragraph including the note and replace with the following: In Australia only(not in New Zealand), the electrical separation is subjected to 10 impulses of alternating polarity, using the impulse test generator of Annex N for 10/700µs impulses. The interval between successive impulses is 60 s and the initial voltage, Uc is:</p> <p>(i) for 6.2.1a): 7.0 kV for hand-held telephones and for headsets and 2.5 kV for other equipment and</p> <p>(ii) for 6.2.1b) and 6.2.1c): 1.5 kV.</p> <p>NOTE 201 - The 7 kV impulse is to simulate lightning surges on typical rural and semi-rural network lines.</p> <p>NOTE 202 - The value of 2.5 kV for 6.2.1a) was chosen to ensure adequacy of the insulation concerned and does not necessarily simulate likely overvoltages.</p> |                 | N/A     |
| 6.2.2.2          | <p>For Australia only, delete the second paragraph including the Note and replace with the following: In Australia (not New Zealand), the a.c. test voltage is:</p> <p>(i) for 6.2.1a) 3 kV; and</p> <p>(ii) for 6.2.1b) and 6.2.1c) 1.5 kV</p> <p>NOTE 201 - Where there are capacitors across the insulation under test, it is recommended that d.c. test voltages are used.</p> <p>NOTE 202 - The 3 kV and 1.5 kV values have been determined considering the low frequency induced voltages from the power supply distribution system.</p>                                                                                                                                                                                                                                                                                   |                 | N/A     |
| 7.3              | Add the following before the first                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark | Verdict |
|                  | paragraph:Equipment providing functions that fall only within the scope of AS/NZS 60065 and that incorporate a PSTN interface, are not required to comply with this Clause where the only ports provided on the equipment, in addition to a coaxial cable connection and a PSTN interface, are audio or video ports and analogue or data ports not intended to be used for telecommunication purposes. |                 |         |
| P                | Add the following Normative References:<br>AS/NZS 3191, Electric flexible cords<br>AS/NZS 3112, Approval and test specification—<br>Plugs and socket-outlets                                                                                                                                                                                                                                           |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>China - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |      |
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| General                                                                              | China has national differences declared for 60950-1:2005 (below).                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Pass |
| 1.1.2                                                                                | Revised third dashed paragraph to read:<br>equipment intended to be used in vehicles, on board ships or aircraft, in tropical countries, or at altitudes greater than 5000m;                                                                                                                                                                                                                                                                                                                                                       |  | N/A  |
| 1.4.5                                                                                | Amend the second paragraph and the two following dash paragraphs as:<br>If the equipment is intended for direct connection to an AC mains supply, the tolerances on RATED VOLTAGE shall be taken as +10%,-10% unless a wider tolerance is declared by the manufacturer, in which case the tolerance shall be taken as the wider value.                                                                                                                                                                                             |  | N/A  |
| 1.4.12.1                                                                             | Tma in clause 1.4.12.1 amended as:<br>Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 35 °C, whichever is greater.<br><br>Add note 1: for equipment not to be operated at tropical climatic conditions, Tma: is the maximum ambient temperature permitted by the manufacturer's specification, or 25 °C, whichever is greater.<br><br>Add note 2: for equipment is to be operated at 2000m-5000m above sea level, its temperature test conditions and temperature limits are considered. |  | N/A  |
| 1.5.2                                                                                | Add a note behind the first dashed paragraph.<br>Note: A component used shall comply with related requirements corresponding altitude of 5000m.                                                                                                                                                                                                                                                                                                                                                                                    |  | N/A  |
| 1.7                                                                                  | Add a paragraph before the last paragraph:<br>The required marking and instruction should be given in normative Chinese unless otherwise specified.                                                                                                                                                                                                                                                                                                                                                                                |  | N/A  |
| 1.7.1                                                                                | Amend dashed paragraph at the fifth paragraph :<br>The RATED VOLTAGE should be 220V (single phase) or 380V (three-phases) for single rated voltage, for RATED VOLTAGE RANGE, it should cover 220V or 380V (three-phases), for multiple RATED VOLTAGES, one of them should be 220V                                                                                                                                                                                                                                                  |  | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Result - Remark | Verdict |
|                  | or 380V (three-phases) and set on 220V or 380V (three-phases) when manufactured.<br>And the RATED FREQUENCY or RATED FREQUENCY RANGE should be 50Hz or include 50Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |
| 1.7.2.1          | <p>Add requirements of warning for equipment intended to be used at altitude not exceeding 2000m or at non-tropical climate regions:<br/>For equipment intended to be used at altitude not exceeding 2000m, a warning label containing the following or a similar appropriate wording, or a symbol as in annex DD shall fixed to the equipment at readily visible place.<br/>"Only used at altitude not exceeding 2000m."</p> <p>For equipment intended to be used in not-tropical climate regions, a warning label containing the following or a similar appropriate wording, or a symbol as in annex DD shall fixed to the equipment at readily visible place.<br/>"Only used in not-tropical climate regions."<br/>If only the symbol used, the explanation of the symbol shall be contained in the instruction manual.<br/>The above statements shall be given in a language acceptable to the regions where the apparatus is intended to be used.</p> |                 | N/A     |
| 2.7.1            | Amended the first paragraph as:<br>Protection in PRIMARY CIRCUITS against overcurrent short-circuits and earth faults shall be provided as an integral part of the equipment except special provisions. And the protective device shall meet the requirement of Clause 5.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 | N/A     |
| 2.9              | <p>Humidity conditioning<br/>This section applies for equipment to be operated at tropical climatic conditions, humidity conditioning dealt with tropical climatic conditions. For equipment not to be operated at tropical climatic conditions, its humidity conditioning complies with rules of CTL 624/07.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | N/A     |
| 2.9.2            | <p>First section of Clause 2.9.2 amended as two sections:<br/>Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 120 h in a cabinet or room containing air with ambient temperature <math>40\pm 2^{\circ}\text{C}</math> and a relative humidity of</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Result - Remark | Verdict |
|                  | <p>(93±3)%. During this conditioning the component or subassembly is not energized.</p> <p>For equipment not to be operated at tropical climatic conditions, Where required by 2.9.1, 2.10.8.3, 2.10.10 or 2.10.11, humidity conditioning is conducted for 48 h in a cabinet or room containing air with a relative humidity of (93±3) %.</p> <p>The temperature of the air, at all places where samples can be located, is maintained within 2 °C of any convenient value between 20 °C and 30 °C such that condensation does not occur.</p> <p>Due to pretreatment of equipment operated at high altitude area is humidity conditioning withstand hot shock, specific requirements are to be considered.</p> <p>Add note: For equipment to be operated at 2000m - 5000m above sea level, assessment and requirement of humidity conditioning for Insulation material properties are considered.</p> |                 |         |
| 2.10.3.1         | <p>Amend the third paragraph of Clause 2.10.3.1 to be:</p> <p>These requirements apply for equipment to be operated up to 2000m above sea level. For equipment to be operated at more than 2000m above sea level and up to 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of IEC 60664-1. For equipment to be operated at more than 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of IEC 60664-1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment.</p>                                                                                                                                           |                 | N/A     |
| 2.10.3.3         | Add "(applicable for altitude up to 2000m)" in header of Table 2K, 2L and 2M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 2.10.3.4         | Add "(applicable for altitude up to 2000m)" in header of Table 2K, 2L and 2M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 2.10.3.4         | <p>Add a new section above Table 2K and in Clause 2.10.3.4:</p> <p>Minimum CLEARANCES determined by above rules apply for equipment to be operated up to 2000m above sea level. For equipment operated at 2000m - 5000m above sea level, the minimum</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark | Verdict |
|                  | CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T16935.1 (IEC 60664-1). For equipment to be operated at more than 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of GB/T16935.1.                                                                                                                                                                                                                                                                                                                          |                 |         |
| 3.2.1.1          | Add a paragraph before the last paragraph:<br>Plugs connected to AC mains supply shall comply with GB 1002 or GB 1003 or GB/T 11918 as applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | N/A     |
| 4.2.8            | Clause 4.2.8 cathode ray tubes quoted Clause 18 of GB8898-2011.<br>Delete note of Clause 4.2.8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | N/A     |
| E                | Amend last section:<br>For comparison of winding temperatures determined by the resistance method of this annex with the temperature limits of Table 4B, 35 °C shall be added to the calculated temperature rise.<br>Add note: for equipment not to be operated at tropical climatic conditions, 25 °C shall be added to the calculated temperature rise to compare with the temperature of Table 4B.                                                                                                                                                                                                                  |                 | N/A     |
| G.6              | Change the second section of Clause G.6 to be:<br>For equipment to be operated at 2000m - 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor 1.48 corresponding altitude of 5000m given in Table A.2 of GB/T16935.1. For equipment to be operated at more than 5000m above sea level, the minimum CLEARANCE shall be multiplied by the factor given in Table A.2 of IEC 60664-1. Linear interpolation is permitted between the nearest two points in Table A.2. The calculated minimum CLEARANCE using this multiplication factor shall be rounded up to the next higher 0,1 mm increment. |                 | N/A     |
| BB               | Amended as: The differences between Chinese national standards GB 4943.1-2011 and GB 4943-2001.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | N/A     |
| DD               | Added annex DD: Instructions for the new safety warning labels.<br>DD.1 Altitude warning label<br>Meaning of the label: Evaluation for apparatus only based on altitude not exceeding 2000m, therefor it's the only operating condition applied for the equipment .There may be some potential safety                                                                                                                                                                                                                                                                                                                  |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark | Verdict |
|                  | hazard if the equipment is used at altitude above 2000m.<br>DD.2 Climate warning label<br>Meaning of the label: Evaluation for apparatus only based on temperate climate condition, therefor it's the only operating condition applied for the equipment .There may be some potential safety hazard if the equipment is used in tropical climate region.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |         |
| EE               | Illustration relative to safety explanation in normative Chinese, Tibetan, Mongolian, Zhuang Language and Uighu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | N/A     |
| Other            | In accordance with the relevant CTL decisions and the amendments of IEC 60950-1, the specific requirements or mistakes in IEC standard are corrected or editorially modified in this part, Including clause 1.7, 2.1.1.7, 2.9.2, Table 2H, Figure 2H, F.8, F.9, M.3 and Annex U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
| Other            | The principles of quoting and referring to other standards in Annex P and reference documents of IEC 60950-1 are as follows:<br>If the date of the reference document is given, only that edition applies, excluding any subsequent corrigenda and amendments. However, parties to agreements based on this part are encouraged to investigate the possibility of applying the most recent editions of the reference documents. For undated references, the latest edition of the referenced document applies, including any corrigenda and amendments.<br>For the usage of international standards in Chinese national standards and industry standards is various, in the aim of achieving easy operation and based on the requirements of GB/T 1.1 and GB/T 20000.2, when quoting an entire international standard in the normative quoting files and reference documents of Annex P of this part, the principles of quotation are as follows:<br>- If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted;<br>- If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted;<br>- If the date of the national standard or industry standard is not given, the latest edition of the standard applies; |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark | Verdict |
|                  | <p>- The national standard or industry standard number, corresponding international standard number and the consistency level code should be identified in parentheses behind the listed national standard or industry standard.</p> <p>When quoting several chapters or clauses of the international standard, the principles of quotation are as follows:</p> <ul style="list-style-type: none"><li>- If there is no national standard or industry standard corresponding to the international standard, then the international standard is quoted;</li><li>- If there is national standard or industry standard corresponding to the international standard, then either the national or industry standard is quoted.</li></ul> <p>Meanwhile, in order to retain the relevant information on international standards, informative annex CC is increased, which gives the table about the comparison of the normative quoting files and reference documents in IEC 60950-1:2005.</p> |                 |         |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Denmark - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |     |
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| 1.2.4.1                                                                                | In Denmark, certain types of Class I appliances (see sub-clause 3.2.1.1) may be provided with plug not establishing earthing continuity when inserted into Danish socket-outlets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evaluated during separate certification of power supply. | N/A |
| 1.7.2.1                                                                                | CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet.<br>The marking text in the applicable countries shall be as follows:<br>: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."                                                                                                                                            |                                                          | N/A |
| 1.7.5                                                                                  | In Denmark, socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment. For stationary equipment, the socket-outlet shall be in accordance with Standard Sheet DK 1-1b or DK 1-5a.                                                                                                                                                                                                                                                                                                                                          |                                                          | N/A |
| 1.7.5                                                                                  | For CLASS II EQUIPMENT the socket outlet shall be in accordance with Standard Sheet DKA 1-4a. (Heavy Current Regulations, Section 107-2-D1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | N/A |
| 3.2.1.1                                                                                | Supply cord of single-phase equipment having a rated current not exceeding 13 A shall be provided with a plug according to the Heavy Current Regulations, Section 107-2-D1.<br><br>CLASS I EQUIPMENT provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a.<br><br>If poly-phase equipment and single-phase equipment having a RATED CURRENT exceeding 13 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current |                                                          | N/A |

| IEC 60950-1:2005 |                                              |                 |         |
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| SubClause        | Difference + Test                            | Result - Remark | Verdict |
|                  | Regulations, Section 107-2-D1 or EN 60309-2. |                 |         |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Finland - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |     |
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| 1.5.7.1                                                                                | Resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.                                                                                                                                                                                                                                                                                                                                                                         |  | N/A |
| 1.5.9.4                                                                                | The third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | N/A |
| 1.7.2.1                                                                                | CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"                                                                                                                                                           |  | N/A |
| 2.3.2                                                                                  | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | N/A |
| 2.10.5.3                                                                               | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | N/A |
| 5.1.7.1                                                                                | Touch current measurement results exceeding 3,5 mA r.m.s are permitted only for the following equipment:<br>- STATIONARY PLUGGABLE EQUIPMENT TYPE A that:<br>(1) is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and<br>(2) has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and<br>(3) is provided with instructions for the installation of that conductor by a SERVICE PERSON;<br>- STATIONARY PLUGGABLE EQUIPMENT TYPE B<br>- STATIONARY PERMANENTLY CONNECTED EQUIPMENT |  | N/A |
| 6.1.2.1                                                                                | Add the following text between the first and second paragraph of the compliance clause:<br>If this insulation is solid, including insulation forming part of a component, it shall at least consist                                                                                                                                                                                                                                                                                                                                                                                                   |  | N/A |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Result - Remark | Verdict |
|                  | <p>of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>Alternatively for components, there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> <li>- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994 (EN 60384-14:2005), subclass Y2.</p> <p>A capacitor classified Y3 according to EN 132400 [EN 60384-14:2005], may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400 [EN 60384-14], which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;</li> <li>- the additional testing shall be performed on all the test specimens as described in EN 132400 [EN 60384-14];</li> <li>- the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 [EN 60384-14], in the sequence of tests as described in EN 132400 [EN 60384-14].</li> </ul> |                 |         |
| 6.1.2.2          | The exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

|     |                                                                                                                                                                                                                                                                                                           |  |     |
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|     | be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication center, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON. |  |     |
| 7.2 | Requirements according to this annex 6.1.2.1 and 6.1.2.2 apply with the term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.                                                                                                                                     |  | N/A |

| Germany - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |                                                                                                                                                                                                                                                                                                                                                         |  |     |
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| 1.7.2.1                                                                         | If for the assurance of safety and health certain rules during use, amending or maintenance of a technical labour equipment or readymade consumer product are to be followed, a manual in German language has to be delivered when placing the product on the market. Of this requirement, rules for use even only by SERVICE PERSONS are not exempted. |  | N/A |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Group - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |
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| General                                                                              | Group Differences also includes the requirements in A11:2009 and A12:2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | Pass |
| 1.3                                                                                  | A12:2011 - In EN 60950-1:2006/A12:2011<br>Delete the addition of 1.3.Z1 / EN 60950-1:2006<br>Delete the definition 1.2.3.Z1 / EN 60950-1:2006 /A1:2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Pass |
| 1.5.1                                                                                | Add the following NOTE Z1: The use of certain substances in electrical and electronic equipment is restricted within the EU: see Directive 2002/95/EC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | N/A  |
| 1.7.2.1                                                                              | Delete NOTE Z1 and the addition for Portable Sound System<br>Add the following Zx clauses and annex to the existing standard and amendments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | N/A  |
| 2.7.1                                                                                | Replace the subclause as follows:<br>Basic requirements<br>To protect against excessive current, short-circuits and earth faults in PRIMARY CIRCUITS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):<br>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.3 shall be included as parts of the equipment;<br>b) for components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;<br>c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.<br>If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet. |  | N/A  |
| 2.7.2                                                                                | Void                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark                                          | Verdict |
| 3.2.3            | Delete the NOTE and conduit sizes in parentheses in Table 3A                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          | N/A     |
| 3.2.5.1          | <p>Add the following Note:<br/>NOTE Z1 The harmonised code designations corresponding to the IEC cord types are given in Annex ZD.</p> <p>In Table 3B, replace the first four lines by the following:<br/>Up to and including 6 0.75 a)<br/>Over 6 up to and including 10 0.75 b) 1.0<br/>Over 10 up to and including 16 1.0 c) 1.5</p> <p>In the conditions applicable to table 3B, delete the words "in some countries" in condition a).<br/>In Note 1, applicable Table 3B, to delete the second sentence.</p>                      |                                                          | N/A     |
| 3.3.4            | <p>In table 3D, delete the fourth line: conductor sizes for 10 to 13 A, and replace with the following:<br/>"Over 10 up to and including 16 1.5 to 2.5 1.5 to by 4"</p> <p>Delete the fifth line: conductor sizes for 13 to 16A.</p>                                                                                                                                                                                                                                                                                                   | Evaluated during separate certification of power supply. | N/A     |
| 4.3.13.6         | Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz and 2006/25/EC: Directive on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (artificial optical radiation). Standards taking into account this Recommendation which demonstrate compliance with the applicable EU Directive are indicated in the OJEC. |                                                          | N/A     |
| H                | <p>Replace the last paragraph of this annex by:<br/>At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.<br/>Replace the notes as follows:<br/>NOTE - These values appear in Directive 96/29/Euratom.<br/>Delete NOTE 2.</p>                                                                                                                                                                                       |                                                          | N/A     |
| Zx               | Protection against excessive sound pressure from personal music players                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark | Verdict |
| Zx.1             | <p>General - This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.</p> <p>A personal music player is a portable equipment for personal use, that:</p> <ul style="list-style-type: none"> <li>- is designed to allow the user to listen to recorded or broadcast sound or video; and</li> <li>- primarily uses headphones or earphones that can be worn in or on or around the ears; and</li> <li>- allows the user to walk around while in use.</li> </ul> <p>NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.</p> <p>A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.</p> <p>The requirements in this sub-clause are valid for music or video mode only.</p> <p>The requirements do not apply:</p> <ul style="list-style-type: none"> <li>- while the personal music player is connected to an external amplifier; or</li> <li>- while the headphones or earphones are not used.</li> </ul> <p>NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</p> <p>The requirements do not apply to:</p> <ul style="list-style-type: none"> <li>- hearing aid equipment and professional equipment;</li> </ul> <p>NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment.</p> <ul style="list-style-type: none"> <li>- analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before</li> </ul> |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Result - Remark | Verdict |
|                  | <p>the end of 2015.</p> <p>NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |
| Zx.2             | <p>Equipment Requirements - No safety provision is required for equipment that complies with the following:</p> <ul style="list-style-type: none"> <li>- equipment provided as a package (personal music player with its listening device), where the acoustic output LAeq,T is <math>\leq 85</math> dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and</li> <li>- a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is <math>\leq 27</math> mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1.</li> </ul> <p>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Zx.5 and Annex Zx.</p> <p>All other equipment shall:</p> <ul style="list-style-type: none"> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the power is switched off; and</li> <li>c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated</li> </ul> |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Result - Remark | Verdict |
|                  | <p>more than once every 20 h of cumulative listening time; and</p> <p>NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.</p> <p>NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.</p> <p>d) have a warning as specified in Zx.3; and</p> <p>e) not exceed the following:</p> <p>1) equipment provided as a package (player with its listening device), the acoustic output shall be <math>\leq 100</math> dBA measured while playing the fixed "programme simulation noise" described in EN 50332-1; and</p> <p>2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be <math>\leq 150</math> mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1. For music where the average sound pressure (long term LAeq,T) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. In this case T becomes the duration of the song.</p> <p>NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA. For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.</p> |                 |         |
| Zx.3             | Warning - The warning shall be placed on the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark | Verdict |
|                  | <p>equipment, or on the packaging, or in the instruction manual and shall consist of the following:</p> <ul style="list-style-type: none"> <li>- the symbol of Figure 1 (IEC 60417-6044) with a minimum height of 5 mm; and</li> <li>- the following wording, or similar:<br/>           "To prevent possible hearing damage, do not listen at high volume levels for long periods."<br/>           Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level</li> </ul>                                                                                                                                  |                 |         |
| Zx.4             | Requirements for Listening devices (headphones and earphones)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | N/A     |
| Zx.4.1           | <p>Wired listening devices with analogue input<br/>           With 94 dBA sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be <math>\geq 75</math> mV.</p> <p>This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).</p> <p>NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.</p>                                                                                                                                                                                           |                 | N/A     |
| Zx.4.2           | <p>Wired listening devices with digital input<br/>           With any playing device playing the fixed "programme simulation noise" described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level), the acoustic output LAeq,T of the listening device shall be <math>\leq 100</math> dBA.</p> <p>This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).</p> <p>NOTE An example of a wired listening device with digital input is a USB headphone.</p> |                 | N/A     |
| Zx.4.3           | <p>Wireless listening devices<br/>           In wireless mode:</p> <ul style="list-style-type: none"> <li>- with any playing and transmitting device playing the fixed programme simulation noise described in</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Result - Remark | Verdict |
|                  | <p>EN 50332-1; and</p> <ul style="list-style-type: none"> <li>- respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and</li> <li>- with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the abovementioned programme simulation noise, the acoustic output LAeq,T of the listening device shall be <math>\leq 100</math> dBA.</li> </ul> <p>NOTE An example of a wireless listening device is a Bluetooth headphone.</p> |                 |         |
| Zx.5             | <p>Measurement Methods</p> <p>Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.</p> <p>NOTE Test method for wireless equipment provided without listening device should be defined.</p>                                                                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |

| Ireland - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |
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| General                                                                         | Ireland has national differences declared for 60950-1:2005, Am 1:2009 (below).                                                                                                                                                                                                                                                                                                                      |  | Pass |
| 3.2.1.1                                                                         | Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic Use) Regulations 1997. |  | N/A  |
| 4.3.6                                                                           | DIRECT PLUG-IN EQUIPMENT is known as plug similar devices. Such devices shall comply with Statutory Instrument 526:1997 - National Standards Authority of Ireland (Section 28) (Electrical plugs, plug similar devices and sockets for domestic use) Regulations, 1997.                                                                                                                             |  | N/A  |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Israel - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |      |
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| General                                                                               | Israel has national differences declared for 60950-1:2005, Am 1:2009 (below).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Pass |
| 1.6.1                                                                                 | Add Note: This clause is applicable subject to the Electricity Law, 1954, its regulations and revisions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | N/A  |
| 1.7                                                                                   | Add: Sub-clause 1.7.201 shall be added at the beginning of the clause.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | N/A  |
| 1.7.2.1                                                                               | Add: All the instructions and warnings related to safety shall also be written in the Hebrew language.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | N/A  |
| 1.7.201                                                                               | The marking in the Hebrew language shall be in accordance with the Consumer Protection Order (Marking of goods), 1983. In addition, the marking required by clause 1.7.1, the following details shall be marked in the Hebrew language. The details shall be marked on the apparatus or on its package, or on a label properly attached to the apparatus or on the package, by bonding or sewing, in a manner that the label cannot be easily removed.<br>1) name of the apparatus and its commercial designation;<br>2) Manufacturer's name and address. If the apparatus is imported, the importer's name and address;<br>3) Manufacturer's registered trademark, if any;<br>4) Name of the model and serial number, if any;<br>5) country of manufacturer |  | N/A  |
| 2.9.4                                                                                 | Add: Seven means of protection against electrocution are permitted according to the Electricity Law, 1954, and the Electricity Regulations (Earthing and means of protection against electricity of voltages up to 1,000V) 1991. The seven are<br>1) TN-S or TN-C-S<br>2) TT<br>3) IT<br>4) Isolated Transformer<br>5) Safety extra low voltage (SELV or ELV)<br>6) Residual current circuit breaker (30 ma = 1delta)<br>7) reinforced insulation; double insulation (Class II)                                                                                                                                                                                                                                                                              |  | N/A  |
| 2.201                                                                                 | Add: Prior to carrying out the tests in accordance with the clauses of this Standard, the compliance of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict |
|                  | the apparatus with the relevant requirements specified in the appropriate part of the standard series SI 961, shall be checked. The apparatus shall meet the requirements in the appropriate part of the standard series SI 961. If there are components of the apparatus for the prevention of electromagnetic interference, these components shall not reduce the safety level of the apparatus as required by this standard. |                 |         |
| 3.2.1.1          | Add after the note: The feed plug shall comply with the requirements of Israel Standard SI 32 Part 1.1.                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 3.2.1.2          | Add: At the end of the first paragraph add the following note: At the time of issue of the standard, there is no Israel Standard for connection accessories to d.c.                                                                                                                                                                                                                                                             |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Japan - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |      |
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| General                                                                              | NCBs are issuing and recognizing to 60950-1:2005, Am 1:2009. Japan has declared differences to 60950-1:2001 (see below.)                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Pass |
| 1.2.4.1                                                                              | Addition of the following note: Note: Even if the equipment is designed as Class I, the equipment is regarded as Class 0I equipment when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended.                                                                                                                                                                                                                                                                                                     |  | N/A  |
| 1.2.4.3A                                                                             | Addition of new clause Class 0I Equipment: Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by:<br>- using BASIC INSULATION, and<br>- providing externally an earth terminal or a lead wire for earthing in order to connect those conductive parts that might assume a HAZARDOUS VOLTAGES in the event of BASIC INSULATION fault to the PROTECTIVE EARTHING CONDUCTOR in the building wiring.<br>NOTE – Class 0I equipment may have a part constructed with Double Insulation or Reinforced Insulation. |  | N/A  |
| 1.3.2                                                                                | Add after the first paragraph:<br>Note 1 Transportable or similar equipment that are relocated frequently for intended usage should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel.<br><br>Note 2 Considering wiring circumstance in Japan, equipment intended to be installed where the provision for earthing connection is unlikely should not be designed as Class I or Class 0I equipment unless it is intended to be installed by service personnel.                                              |  | N/A  |
| 1.5.1                                                                                | Replace the first paragraph with:<br>Where safety is involved, components shall comply either with the requirements of this standard, with the safety aspects of the relevant JIS component standard, or IEC component standards in case there is no applicable JIS component standard is available. However, a component that falls within                                                                                                                                                                                                                          |  | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark | Verdict |
|                  | the scope of METI Ministerial ordinance No. 85 is properly used in accordance with its marked ratings, requirements of 1.5.4, 2.8.7 and 3.2.5 apply, and in addition, a cord connector of power supply cord set mating with appliance inlet complying with the standard sheet of IEC 60320-1, shall comply with relevant standard sheet of IEC 60320-1.                                                                                              |                 |         |
| 1.5.1            | Replace note 1 with:<br>Note 1 A JIS or an IEC component standard is considered relevant only if the component in question clearly falls within its scope.                                                                                                                                                                                                                                                                                           |                 | N/A     |
| 1.5.2            | Replace the first sentence in the first dashed paragraph with the following:<br>A component that has been demonstrated to comply with a JIS component standard harmonized with the relevant IEC component standard, or where such JIS component standard is not available, a component that has been demonstrated to comply with the relevant IEC component standard shall be checked for correct application and use in accordance with its rating. |                 | N/A     |
| 1.5.2            | Add the following note after the first dashed paragraph:<br>Note 1 See 1.7.5A when Type C.14 appliance coupler rated 10 A per IEC 60320-1 is used with an equipment rated not more than 125 V and rated more than 10 A.                                                                                                                                                                                                                              |                 | N/A     |
| 1.5.2            | Replace first sentence in the third dashed paragraph with the following:<br>Where no relevant IEC component standard or JIS component standard harmonized with the relevant IEC component standard exists, or where components are used in circuits not in accordance with their specified rating, the components shall be tested under the conditions occurring in the equipment.                                                                   |                 | N/A     |
| 1.5.6            | In this sub-clause, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |
| 1.5.7.2          | In this sub-clause, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |
| 1.5.8            | In the first paragraph, add "JIS C 5101-14:1998 or" before the reference number, IEC 60384-14:1993.                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 1.7.1            | Replace fifth dashed paragraph with the following:                                                                                                                                                                                                                                                                                                                                                                                                   |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |     |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
|         | manufacturer's or responsible company's name or trade-mark or identification mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |     |
| 1.7.5   | In the second paragraph, add "or JIS C 8303:2007" after the reference number, IEC/TR 60083:1997".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | N/A |
| 1.7.5A  | Add the following new clause after 1.7.5:<br>Appliance Coupler<br>If appliance coupler according to IEC60320-1, C.14(rated current: 10A)is used in equipment whose rated voltage is less than 125V and rated current is over 10A, the following instruction or equivalent shall be described in the user instruction.<br>" Use only designated cord set attached in this equipment"                                                                                                                                                                                                                                                                          |  | N/A |
| 1.7.12  | Replace first sentence with the following:<br>Instructions and equipment marking related to safety shall be in Japanese.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | N/A |
| 1.7.17A | Add the following new clause. after 1.7.17:<br><br>Marking for CLASS 0I EQUIPMENT<br>For CLASS 0I EQUIPMENT, the following instruction shall be marked on the visible place of the mains plug or the main body:<br><br>"Provide an earthing connection"<br><br>Moreover, for CLASS 0I EQUIPMENT, the following or equivalent instruction shall be indicated on the visible place of the main body or written in the operating instructions:<br><br>"Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains." |  | N/A |
| 2.1.1.1 | In item b) of this sub-clause, replace "IEC 60083" with "JIS C 8303:2007 or Article 1 of the Ministerial Ordinance (No. 85:1962)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | N/A |
| 2.6.3.2 | Add the following after 1st paragraph:<br>This also applies to the conductor of lead wire for protective earthing of CLASS 0I EQUIPMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | N/A |
| 2.6.4.2 | Replace 1st paragraph with the following:<br>Equipment required to have protective earthing shall have a main protective earthing terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | N/A |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |         |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                  | Result - Remark | Verdict |
|                  | For equipment with a DETACHABLE POWER SUPPLY CORD, the earthing terminal in the appliance inlet is regarded as the main protective earthing terminal except for CLASS 0I EQUIPMENT providing separate main protective earthing terminal other than appliance inlet.                                                                                                                                                                |                 |         |
| 2.6.5.4          | Replace 1st sentence with the following:<br>Protective earthing connections of CLASS I EQUIPMENT shall make earlier and break later than the supply connections in each of the following:                                                                                                                                                                                                                                          |                 | N/A     |
| 2.6.5.8A         | Add the following new clause. after 2.6.5.8A:<br>Earthing of CLASS 0I EQUIPMENT<br>Plugs with a lead wire for earthing shall not be used for equipment having a rated voltage exceeding 150V.<br>For plugs with a lead wire for earthing, the lead wire shall not be earthed by a clip.<br>CLASS 0I EQUIPMENT shall be provided with an earthing terminal or lead wire for earthing in the external location where easily visible. |                 | N/A     |
| 2.10.3.1         | In this sub-clause, replace IEC 60664-1 with JIS C 0664:2003.                                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |
| 2.10.3.2         | In the second paragraph, replace IEC 60664-1 with JIS C 0664:2003.                                                                                                                                                                                                                                                                                                                                                                 |                 | N/A     |
| 3.2.3            | Add the following after Table 3A:<br>Table 3A applies when cables complying JIS C 3662 or JIS C 3663 are used. In case of other cables, cable entries shall be so designed that a conduit suitable for the cable used can be fitted.                                                                                                                                                                                               |                 | N/A     |
| 3.2.5.1          | Add the following to the last of first dashed paragraph.<br>Or mains cords shall be of the sheathed type complying with Appendix 1 of Article 1 of the Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance.                                                                                                                                                                                   |                 | N/A     |
| 3.2.5.1          | Add the following to the last of second dashed paragraph.<br>Or mains cords shall be of the sheathed type complying with Appendix 1 of Article 1 of the Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance.                                                                                                                                                                                  |                 | N/A     |
| 3.2.5.1          | Delete 1) in Table 3B.                                                                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                 |                 |         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict |
| 3.3.4            | Add the following note to Table 3D:<br>Note For cables other than those complying with JIS C 3662 or JIS C 3663, terminals shall be suitable for the size of the intended cables.                                                                                                                               |                 | N/A     |
| 3.3.7            | Add the following after the first sentence:<br>This requirement is not applicable to the external earthing terminal of Class 0I equipment.                                                                                                                                                                      |                 | N/A     |
| 4.3.4            | Add the following after the first sentence:<br>This requirement also applies to those connections in Class 0I equipment, where CLEARANCE or CREEPAGE DISTANCES over BASIC INSULATION would be reduced to less than the values specified in 2.10.                                                                |                 | N/A     |
| 4.3.13.5         | Replace the first paragraph with the following:<br><br>Except as permitted below, equipment shall be classified and labelled according to JIS C 6802:2005, and JIS C 6803:2006 or IEC 60825-2:2000, as applicable.<br><br>Replace IEC 60825-1 in the second and the last paragraph with JIS C 6802:2005.        |                 | N/A     |
| 4.5              | Add the following NOTE to Table 4B, 3):<br>NOTE: In case no data for the material is available, Appendix 4, 1. (1). b. 3 of the Interpretation on the Ministerial Ordinance stipulating Technical Specifications for Electrical Appliances (Commerce and Distribution Policy Group No. 3:2008/06/19) may apply. |                 | N/A     |
| 5.1.3            | Add a note after the first paragraph as follows:<br>Note – Attention should be drawn to that majority of three-phase power system in Japan is of delta connection, and therefore, in that case, test is conducted using the test circuit from IEC 60990, figure 13.                                             |                 | N/A     |
| 5.1.6            | Replace Table 5A as shown in J60950-1.                                                                                                                                                                                                                                                                          |                 | N/A     |
| 6                | Replace IEC 60664-1 in NOTE 4 with JIS C 0664.                                                                                                                                                                                                                                                                  |                 | N/A     |
| 7                | Replace IEC 60664-1 in NOTE 3 with JIS C 0664:2003.                                                                                                                                                                                                                                                             |                 | N/A     |
| 7.2              | Add the following after the paragraph:<br>However, the separation requirements and tests of 6.2.1 a), b) and c) do not apply to a CABLE DISTRIBUTION SYSTEM if all of the following                                                                                                                             |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Result - Remark | Verdict |
|                  | <p>apply:</p> <ul style="list-style-type: none"> <li>– the circuit under consideration is a TNV-1 CIRCUIT; and</li> <li>– the common or earthed side of the circuit is connected to the screen of the coaxial cable and to all accessible parts and circuits (SELV, accessible metal parts and LIMITED CURRENT CIRCUITS, if any); and</li> <li>– the screen of the coaxial cable is intended to be connected to earth in the building installation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |
| JA               | <p>Add new Annex JA:</p> <p>Document shredding machines shall also comply with the requirements of this annex except those of STATIONARY EQUIPMENT used by connecting directly to an AC MAINS SUPPLY of three-phase 200V or more.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | N/A     |
| JA.1             | <p>Add: Markings and instructions</p> <p>The symbol (JIS S 0101:2000, 6.2.4) (exclamation point in yellow triangle) and the following precautions for use shall be marked on readily visible part adjacent to document feed opening. The marking shall be clearly legible, permanent, and easily discernible;</p> <ul style="list-style-type: none"> <li>- that use by an infants/children may cause a hazard of injury etc.;</li> <li>- that a hand can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- that clothing can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- that hairs can be drawn into the mechanical section for shredding when touching the document-slot;</li> <li>- in case of equipment incorporating a commutator motor, that equipment may catch fire or explode by spraying of flammable gas.</li> </ul> |                 | N/A     |
| JA.2             | <p>Add: Inadvertent Reactivation</p> <p>Any safety interlock that can be operated by means of the test finger, Figure JA.1, is considered to be likely to cause inadvertent reactivation of the hazard.</p> <p>Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark | Verdict |
| JA.3             | Add: Disconnection from the mains supply:<br>Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two-position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| JA.3             | Add: If two-position switch, the positions for "ON" and "OFF" shall be indicated in accordance with sub-clause 1.7.8. If multi-position switch, the position for "OFF" shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols.<br><br>Compliance is checked by inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | N/A     |
| JA.4             | Add: Protection against hazardous moving parts:<br>Any warning shall not be used instead of the structure for preventing access to hazardous moving parts.<br><br>Document shredding machines shall comply with the following requirements.<br><br>Insert the test finger, Figure JA.1, into all openings in MECHANICAL ENCLOSURES without applying appreciable force. It shall not be possible to touch hazardous moving parts with the test finger. This consideration applies to all sides of MECHANICAL ENCLOSURES when the equipment is mounted as intended. Before testing with the test finger, remove the parts detachable without a tool.<br><br>Insert the wedge-probe, Figure JA.2, into the document-slot. And, against all directions of openings, if straight-cutting type, a force of 45 N shall apply to the probe, and 90 N if cross-cutting type. In this case, the weight of the probe is to be factored into the overall applied force. Before testing with the wedge-probe, remove the parts detachable without a tool. It shall not be possible to touch any hazardous moving parts, including the shredding roller or the mechanical section for shedding, with the probe.<br><br>Note 1 - The thickness of the probe varies linearly, with slope changes at the respective points shown in the table. |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

|     |                                                                                                                                                                                                                                                                                                                                                               |  |     |
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|     | Note 2 –The allowable dimensional tolerance of the probe is +/- 0.127 mm.                                                                                                                                                                                                                                                                                     |  |     |
| W.1 | Replace second and third sentence in the first paragraph with the following:<br>This distinction between earthed and unearthed (floating) circuit is not the same as between CLASS I EQUIPMENT, CLASS 0I EQUIPMENT and CLASS II EQUIPMENT. Floating circuits can exist in CLASS I EQUIPMENT or CLASS 0I EQUIPMENT and earthed circuits in CLASS II EQUIPMENT. |  | N/A |

| Korea - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |                                                                                                                   |  |      |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|------|
| General                                                                       | Korea has national differences declared for 60950-1:2005, Am 1:2009 (below).                                      |  | Pass |
| 1.5.101                                                                       | Plugs for the connection of the apparatus to the mains supply shall comply with the Korean requirement (KSC 8305) |  | N/A  |
| 8                                                                             | EMC - The apparatus shall comply with the relevant CISPR standards                                                |  | N/A  |

| IEC 60950-1:2005 |                   |                 |         |
|------------------|-------------------|-----------------|---------|
| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Norway - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                       |      |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------|
| General                                                                               | Norway has national differences declared for 60950-1:2005, Am 1:2009 (below).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                       | Pass |
| 1.2.13.14                                                                             | For requirements see 1.7.2.1 and 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                       | N/A  |
| 1.5.7.1                                                                               | Resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.2. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                       | N/A  |
| 1.5.8                                                                                 | Due to the IT power system used (see annex V, figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | It should be evaluated during separate certification of power supply. | N/A  |
| 1.5.9.4                                                                               | The third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                       | N/A  |
| 1.7.2.1                                                                               | CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be: "Apparatet må tilkoples jordet stikkontakt"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                       | N/A  |
| 1.7.2.1                                                                               | In Norway, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.<br>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:<br>"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing - and to a cable distribution system using coaxial cable, may in |                                                                       | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark | Verdict |
|                  | <p>some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)."</p> <p>NOTE: In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.</p> <p>Translation to Norwegian (the Swedish text will also be accepted in Norway): "Utstyr som er koplet til beskyttelsesjord via nettplugg og/eller via annet jordtilkoplet utstyr - og er tilkoplet et kabel-TV nett, kan forårsake brannfare. For å unngå dette skal det ved tilkopling av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet."</p> |                 |         |
| 2.2.4            | Requirements according to this annex, 1.7.2.1, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 2.3.2            | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 2.3.4            | Requirements according to this annex, 1.7.2.1, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 2.10.5.13        | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 5.1.7.1          | <p>TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s are permitted only for the following equipment:</p> <ul style="list-style-type: none"> <li>- STATIONARY PLUGGABLE EQUIPMENT TYPE A that:               <ul style="list-style-type: none"> <li>(1) is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and</li> <li>(2) has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and</li> <li>(3) is provided with instructions for the installation of that conductor by a SERVICE PERSON;</li> </ul> </li> <li>- STATIONARY PLUGGABLE EQUIPMENT TYPE B</li> <li>- STATIONARY PERMANENTLY CONNECTED EQUIPMENT</li> </ul>                                                                                                                                                                                 |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Result - Remark | Verdict |
| 6.1.2.1          | <p>Add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>Alternatively for components, there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> <li>- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 123400 [EN 60384-14:2005], may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400 [EN 60384-14], which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;</li> <li>- the additional testing shall be performed on all the test specimens as described in EN 132400 [EN 60384-14];</li> <li>- the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 [EN 60384-14], in the sequence of tests as described in EN 132400 [EN 60384-14.]</li> </ul> |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |         |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                    | Result - Remark | Verdict |
| 6.1.2.2          | The exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT and PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON. |                 | N/A     |
| 7.2              | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply with the term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM.                                                                                                                                                                                                                                                               |                 | N/A     |
| 7.3              | Refer to EN 60728-11:2005 for installation conditions                                                                                                                                                                                                                                                                                                                                                                                |                 | N/A     |
| 7.3              | Requirements according to this annex 1.2.13.14 and 1.7.2.1 apply.                                                                                                                                                                                                                                                                                                                                                                    |                 | N/A     |

| Spain - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |      |
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| General                                                                       | Spain has national differences declared for 60950-1:2005, Am 1:2009 (below).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Pass |
| 3.2.1.1                                                                       | Supply cords of single-phase equipment having a rated current not exceeding 10A shall be provided with a plug according to UNE 20315:1994. Supply cords of single-phase equipment having a rated current not exceeding 2.5A shall be provided with a plug according to UNE-EN 50075:1993. CLASS 1 EQUIPMENT provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard UNE 20315:1994. If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2. |  | N/A  |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Sweden - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |     |
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| 1.2.13.14                                                                             | For requirements see 1.7.2.1 and 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | N/A |
| 1.5.1                                                                                 | (Ordinance (1990:944)) Add NOTE: Switches containing mercury are not permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | N/A |
| 1.5.7.1                                                                               | Resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.2. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | N/A |
| 1.5.9.4                                                                               | The third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | N/A |
| 1.7.2.1                                                                               | CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text shall be: "Apparaten skall anslutas till jordat uttag"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | N/A |
| 1.7.2.1                                                                               | In Sweden, the screen of the cable distribution system is normally not earthed at the entrance of the building and there is normally no equipotential bonding system within the building. Therefore the protective earthing of the building installation need to be isolated from the screen of a cable distribution system. It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.<br>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:<br>"Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing - and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard.<br>Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range |  | N/A |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Result - Remark | Verdict |
|                  | <p>(galvanic isolator, see EN 60728-11)."</p> <p>NOTE: In Norway, due to regulation for installations of cable distribution systems, and in Sweden, a galvanic isolator shall provide electrical insulation below 5 MHz. The insulation shall withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.</p> <p>Translation to Swedish: "Utrustning som är kopplad till skyddsjord via jordat vägguttag och/eller via annan utrustning och samtidigt är kopplad till kabel-TV nät kan i vissa fall medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet."</p> |                 |         |
| 2.3.2            | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | N/A     |
| 2.10.5.13        | Requirements according to this annex, 6.1.2.1 and 6.1.2.2 apply.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 | N/A     |
| 5.1.7.1          | <p>TOUCH CURRENT measurement results exceeding 3,5 mA r.m.s are permitted only for the following equipment:</p> <p>STATIONARY PLUGGABLE EQUIPMENT TYPE A that:</p> <p>(1) is intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, for example, in a telecommunication centre; and</p> <p>(2) has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR; and</p> <p>(3) is provided with instructions for the installation of that conductor by a SERVICE PERSON;</p> <p>- STATIONARY PLUGGABLE TYPE B</p> <p>- STATIONARY PERMANENTLY CONNECTED EQUIPMENT</p>                                                                         |                 | N/A     |
| 6.1.2.1          | <p>Add the following text between the first and second paragraph of the compliance clause:</p> <p>If this insulation is solid, including insulation forming part of a component, it shall at least consist of either</p> <ul style="list-style-type: none"> <li>- two layers of thin sheet material, each of which shall pass the electric strength test below, or</li> <li>- one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below.</li> </ul> <p>Alternatively for components, there is no distance</p>                                                                                                                         |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark | Verdict |
|                  | <p>through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in accordance with the compliance clause below and in addition</p> <ul style="list-style-type: none"> <li>- passes the tests and inspection criteria of 2.10.11 with an electric strength test of 1,5 kV multiplied by 1,6 (the electric strength test of 2.10.10 shall be performed using 1,5 kV), and</li> <li>- is subject to ROUTINE TESTING for electric strength during manufacturing, using a test voltage of 1,5 kV.</li> </ul> <p>It is permitted to bridge this insulation with an optocoupler complying with 2.10.5.4 b).</p> <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.</p> <p>A capacitor classified Y3 according to EN 132400 [EN 60384-14:2005], may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400 [EN 60384-14], which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in EN 60950-1:2006, 6.2.2.1;</li> <li>- the additional testing shall be performed on all the test specimens as described in EN 132400 [EN 60384-14];</li> <li>- the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 [EN 60384-14], in the sequence of tests as described in EN 132400 [EN 60384-14].</li> </ul> |                 |         |
| 6.1.2.2          | <p>The exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT and PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | N/A     |
| 7.2              | Requirements according to this annex, 6.1.2.1 and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

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|     | 6.1.2.2 apply with the term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE DISTRIBUTION SYSTEM. |  |     |
| 7.3 | Requirements according to this annex 1.2.13.14 and 1.7.2.1 apply.                                                    |  | N/A |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>Switzerland - Differences to IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |      |
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| General                                                                                    | Includes update from 60950-1:2005, AC:2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Pass |
| 1.5.1                                                                                      | Ordinance on environmentally hazardous substances SR 814.81, Annex 1.7, Mercury - Annex 1.7 of SR 814.81 applies for mercury. Switches containing mercury such as thermostats, relays and level controllers are not allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | N/A  |
| 1.7.13                                                                                     | Ordinance on chemical hazardous risk reduction SR 814.81, Annex 2.15, Batteries - Annex 2.15 of SR 814.81 applies for batteries containing cadmium and mercury. Note: Ordinance relating to environmentally hazardous substances, SR 814.013 of 1986-06-09 is no longer in force and superseded by SR 814.81 of 2009-02-01 (ChemRRV).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | N/A  |
| 3.2.1.1                                                                                    | <p>Supply cords of portable electrical appliances having a rated current not exceeding 10 A shall be provided with a plug complying with IEC 60884-1 (3rd Ed.) + Amd. 1, SEV 1011 and one of the following dimension sheets:</p> <ul style="list-style-type: none"> <li>- SEV 6533-2:2009, Plug type 11, L+N, 250 V, 10 A</li> <li>- SEV 6534-2:2009, Plug type 12, L+N+PE, 250 V, 10 A</li> <li>- SEV 6532-2:2009, Plug type 15, 3P+N+PE, 250/400 V, 10 A</li> </ul> <p>Supply cords of portable electrical appliances having a rated current not exceeding 16 A shall be provided with a plug complying with IEC 60884-1 (3rd Ed.) + Amd. 1, SEV 1011 and one of the following dimension sheets:</p> <ul style="list-style-type: none"> <li>- SEV 5933-2:2009, Plug type 21, L+N, 250 V, 16 A</li> <li>- SEV 5934-2:2009, Plug type 23, L+N+PE, 250 V, 16 A</li> <li>- SEV 5932-2:2009, Plug type 25, 3P+N+PE, 230/400 V, 16 A</li> </ul> <p>NOTE: 16 A plugs are not often used in Swiss domestic installation systems.</p> |  | N/A  |
| 3.2.4                                                                                      | Requirements according to this annex 3.2.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | N/A  |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |
|                  | apply.            |                 |         |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

| <b>USA / Canada - Differences to IEC 60950-1:2005 (Second Edition);<br/>Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                         |  |      |
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| 1.1.1                                                                                           | Equipment able to be installed in accordance with the National Electrical Code ANSI/NFPA 70 and the Canadian Electrical Code, Part1, and when applicable, the National Electrical Safety Code, IEEE C2. |  | Pass |
| 1.1.1                                                                                           | Equipment able to be installed in accordance with ANSI/NFPA 75 and NEC Art. 645 unless intended for use outside of computer room and provided with such instructions.                                   |  | Pass |
| 1.1.2                                                                                           | Baby monitors are required to additionally comply with ASTM F2951, Consumer Safety Specification for Baby Monitors.                                                                                     |  | N/A  |
| 1.1.2                                                                                           | Equipment in wire-line communication facilities serving high-voltage electric power stations operating at greater than 1kV are excluded.                                                                |  | N/A  |
| 1.1.2                                                                                           | Special requirements apply to equipment intended for use outdoors.                                                                                                                                      |  | N/A  |
| 1.4.14                                                                                          | For PLUGGABLE EQUIPMENT TYPE A, the protection in the installation is assumed to be 20 A.                                                                                                               |  | Pass |
| 1.5.1                                                                                           | All IEC standards for components identified in Annex P.1 replaced by the relevant requirements of CSA and UL component standards in Annex P.1.                                                          |  | Pass |
| 1.5.1                                                                                           | All IEC standards for components identified in Annex P.2 alternatively satisfied by the relevant requirements of CSA and UL component standards in Annex P.2.                                           |  | Pass |
| 1.5.5                                                                                           | Interconnecting cables acceptable for the application regarding voltage, current, temperature, flammability, mechanical serviceability and the like.                                                    |  | N/A  |
| 1.5.5                                                                                           | For other than limited power and TNV circuits, the type of output circuit identified for output connector.                                                                                              |  | N/A  |
| 1.5.5                                                                                           | External cable assemblies that exceed 3.05 m in length to be types specified in the NEC and CEC.                                                                                                        |  | N/A  |
| 1.5.5                                                                                           | Detachable external interconnecting cables 3.05 m or less in length and provided with equipment marked to identify the responsible organization and the designation for the cable.                      |  | N/A  |
| 1.5.5                                                                                           | Building wiring and cable for use in ducts, plenums and other air handling space subject to special requirements and excluded from scope.                                                               |  | N/A  |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                               |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                                                             | Result - Remark | Verdict |
| 1.5.5            | Telephone line and extension cords and the like comply with UL 1863 and CSA C22.2 No. 233.                                                                                                                                                                    |                 | N/A     |
| 1.6.1.2          | Equipment intended for connection to a d.c. power (mains) distribution system is subject to special circuit classification requirements (e.g., TNV-2)                                                                                                         |                 | N/A     |
| 1.6.1.2          | Earthing of d.c. powered equipment provided.                                                                                                                                                                                                                  |                 | N/A     |
| 1.7              | Lamp replacement information indicated on lampholder in operator access area.                                                                                                                                                                                 |                 | N/A     |
| 1.7.1            | Special marking format for equipment intended for use on a supply system with an earthed neutral and more than one phase conductor.                                                                                                                           |                 | N/A     |
| 1.7.1            | Equipment voltage rating not higher than rating of the plug except under special conditions.                                                                                                                                                                  |                 | N/A     |
| 1.7.6            | Special fuse replacement marking for operator accessible fuses.                                                                                                                                                                                               |                 | N/A     |
| 1.7.7            | Identification of terminal connection of the equipment earthing conductor.                                                                                                                                                                                    |                 | N/A     |
| 1.7.7            | Connectors and field wiring terminals for external Class 2 or Class 3 circuits provided with marking indicating minimum Class of wiring to be used.                                                                                                           |                 | N/A     |
| 1.7.7            | Marking located adjacent to terminals and visible during wiring.                                                                                                                                                                                              |                 | N/A     |
| 2.1.1.1          | Bare TNV conductive parts in the interior of equipment normally protected against contact by a cover intended for occasional removal are exempt provided instructions include directions for disconnection of TNV prior to removal of the cover.              |                 | N/A     |
| 2.3.1.b          | Other telecommunication signaling systems (e.g., message waiting) than described in 2.3.1(b) are subject to M.4.                                                                                                                                              |                 | N/A     |
| 2.3.1.b          | For TNV-2 and TNV-3 circuits with other than ringing signals and with voltages exceeding 42.4 Vp or 60 V d.c., the maximum current limit through a 2000 Ohm or greater resistor with loads disconnected is 7.1 mA peak or 30 mA d.c. under normal conditions. |                 | N/A     |
| 2.3.1.b          | Limits for measurements across 5000 ohm resistor in the event of a single fault are replaced after 200 ms with the limits of M.3.1.4.                                                                                                                         |                 | N/A     |
| 2.3.2.1          | In the event of a single fault, the limits of 2.2.3 apply to SELV circuits and accessible conductive parts.                                                                                                                                                   |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                              | Result - Remark | Verdict |
| 2.5              | Overcurrent protection device required for Class 2 and Class 3 limiting in accordance with the NEC, or for a Limited Power Source, not interchangeable with devices of higher ratings if operator replaceable. |                 | N/A     |
| 2.6              | Equipment having receptacles for output a.c. power connectors generated from an internal separately derived source have the earthed (grounded) circuit conductor suitably bonded to earth.                     |                 | N/A     |
| 2.6.2            | Equipment with functional earthing is required to be marked with the functional earthing symbol (IEC 60417-6092).                                                                                              |                 | N/A     |
| 2.6.3.3          | For PLUGGABLE EQUIPMENT TYPE A, if a) b) or c) are not applicable, the current rating of the circuit is taken as 20 A                                                                                          |                 | N/A     |
| 2.6.3.3          | The first column on Table 2D requirement: "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."                                                 |                 | N/A     |
| 2.6.3.4          | Capacity of connection between earthing terminal and parts required to be earthed subject to special conditions based on the current rating of the circuit.                                                    |                 | N/A     |
| 2.6.3.4          | Protective bonding conductors and their terminals of non-standard constructions (e.g. PWB traces) evaluated to limited short-circuit test of CSA C22.2 No.0.4.                                                 |                 | N/A     |
| 2.6.4.1          | Field wiring terminals for earthing conductors suitable for wire sizes (gauge) used in US and Canada.                                                                                                          |                 | N/A     |
| 2.7.1            | Data for selection of special external branch circuit overcurrent devices marked on the equipment.                                                                                                             |                 | N/A     |
| 2.7.1            | Standard supply outlets protected by overcurrent device in accordance with the NEC, and CEC, Part 1.                                                                                                           |                 | N/A     |
| 2.7.1            | Overcurrent protection for individual transformers that distribute power to other units over branch circuit wiring.                                                                                            |                 | N/A     |
| 2.7.1            | Additional requirements for overcurrent protection apply to equipment provided with panelboards.                                                                                                               |                 | N/A     |
| 2.7.1            | Non-motor-operated equipment requiring special overcurrent protective device marked with device rating.                                                                                                        |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                            |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                                                          | Result - Remark | Verdict |
| 2.10.5.12        | Multi-layer winding wire subject to UL component wire requirements in addition to 2.10.5.12 and Annex U.                                                                                                                   |                 | N/A     |
| 3.1.1            | Permissible combinations of internal wiring/external cable sizes for overcurrent and short circuit protection.                                                                                                             |                 | N/A     |
| 3.1.1            | All interconnecting cables protected against overcurrent and short circuit.                                                                                                                                                |                 | N/A     |
| 3.2              | Wiring methods permit connection of equipment to primary power supply in accordance with the NEC and CEC, Part 1.                                                                                                          |                 | N/A     |
| 3.2.1            | Permitted use for flexible cords and plugs.                                                                                                                                                                                |                 | N/A     |
| 3.2.1            | Flexible cords provided with attachment plug rated 125% of equipment current rating.                                                                                                                                       |                 | N/A     |
| 3.2.1            | Any Class II equipment provided with 15 or 20 A standard supply outlets, Edison-base lampholders or single pole disconnect device provided with a polarized type attachment plug.                                          |                 | N/A     |
| 3.2.1.2          | Equipment intended for connection to DC mains supply power systems complies with special wiring requirements (e.g., no permanent connection to supply by flexible cord).                                                   |                 | N/A     |
| 3.2.1.2          | Equipment with one pole of the DC mains supply connected to both the equipment mains input terminal and the main protective earthing terminal provided with special instructions and construction provisions for earthing. |                 | N/A     |
| 3.2.1.2          | Equipment with means for connecting supply to earthing electrode conductor has no switches or protective devices between supply connection and earthing electrode connection.                                              |                 | N/A     |
| 3.2.1.2          | Special markings and instructions for equipment with provisions to connect earthed conductor of a DC supply circuit to earthing conductor at the equipment.                                                                |                 | N/A     |
| 3.2.1.2          | Special markings and instructions for equipment with earthed conductor of a DC supply circuit connected to the earthing conductor at the equipment.                                                                        |                 | N/A     |
| 3.2.1.2          | Terminals and leads provided for permanent connection of DC powered equipment to supply marked to indicate polarity if reverse polarity may                                                                                |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
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| SubClause        | Difference + Test | Result - Remark | Verdict |

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|       | result in a hazard.                                                                                                                                                                                                                                                                                                                                                                              |  |     |
| 3.2.3 | Permanently connected equipment has provision for connecting and securing a field wiring system (i.e. conduit, or leads etc.) per the NEC and CEC, Part 1.                                                                                                                                                                                                                                       |  | N/A |
| 3.2.3 | Permanently connected equipment may have terminals or leads not smaller than No. 18 AWG (0.82 mm <sup>2</sup> ) and not less than 150 mm in length for connection of field installed wiring.                                                                                                                                                                                                     |  | N/A |
| 3.2.3 | If supply wires exceed 60 °C, marking indicates use of 75 °C or 90 °C wiring for supply connection as appropriate.                                                                                                                                                                                                                                                                               |  | N/A |
| 3.2.3 | Equipment compatible with suitable trade sizes of conduits and cables.                                                                                                                                                                                                                                                                                                                           |  | N/A |
| 3.2.5 | Power supply cords are required to be no longer than 4.5 m in length.<br><br>Minimum cord length is required to be 1.5 m, with certain constructions such as external power supplies allowed to consider both input and output cord lengths into the requirement.<br><br>Flexible power supply cords are required to be compatible with Article 400 of the NEC, and Tables 11 and 12 of the CEC. |  | N/A |
| 3.2.5 | Conductors in power supply cords sized according to NEC and CEC, Part I.                                                                                                                                                                                                                                                                                                                         |  | N/A |
| 3.2.5 | Power supply cords and cord sets incorporate flexible cords suitable for the particular application.                                                                                                                                                                                                                                                                                             |  | N/A |
| 3.2.6 | Strain relief provided for non-detachable interconnecting cables not supplied by a limited power source.                                                                                                                                                                                                                                                                                         |  | N/A |
| 3.2.9 | Adequate wire bending space and volume of field wiring compartment required to properly make the field connections.                                                                                                                                                                                                                                                                              |  | N/A |
| 3.2.9 | Equipment intended solely for installation in Restricted Access Locations using low voltage d.c. systems may not need provision for connecting and securing a field wiring system. A method of securing wiring or instructions provided to ensure the wiring is protected from abuse.                                                                                                            |  | N/A |
| 3.3   | Field wiring terminals provided for interconnection of units for other than LPS or Class 2 circuits also                                                                                                                                                                                                                                                                                         |  | N/A |

| IEC 60950-1:2005 |                                                                                                                                                                                       |                 |         |
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| SubClause        | Difference + Test                                                                                                                                                                     | Result - Remark | Verdict |
|                  | comply with 3.3.                                                                                                                                                                      |                 |         |
| 3.3              | Interconnection of units by LPS or Class 2 conductors may have field wiring connectors other than those specified in 3.3 if wiring is reliably separated.                             |                 | N/A     |
| 3.3.1            | Terminals for the connection of neutral conductor identified by a distinctive white marking or other equally effective means.                                                         |                 | N/A     |
| 3.3.3            | Wire binding screw terminal permitted for connection of No. 10 AWG (5.3 mm <sup>2</sup> ) or smaller conductor if provided with upturned lugs, cupped washer or equivalent retention. |                 | N/A     |
| 3.3.4            | Terminals accept wire sizes (gauge) used in the U.S. and Canada.                                                                                                                      |                 | N/A     |
| 3.3.4            | Terminals accept current-carrying conductors rated 125% of the equipment current rating.                                                                                              |                 | N/A     |
| 3.3.5            | First column of Table 3E revised to require "Smaller of the RATED CURRENT of the equipment or the PROTECTIVE CURRENT RATING of the circuit under consideration."                      |                 | N/A     |
| 3.3.6            | Field wiring terminals marked to indicate the material(s) of the conductor appropriate for the terminals used.                                                                        |                 | N/A     |
| 3.3.6            | Connection of an aluminum conductor not permitted to terminal for equipment earthing conductor.                                                                                       |                 | N/A     |
| 3.3.6            | Field wiring connections made through the use of suitable pressure connectors (including set screw type), solder lugs or splices to flexible leads.                                   |                 | N/A     |
| 3.4.2            | Separate motor control device(s) required for cord-connected equipment rated more than 12 A, or with motor rated more than 1/3 hp or more than 120 V.                                 |                 | N/A     |
| 3.4.8            | Vertically mounted disconnect devices oriented so up position of handle is "on".                                                                                                      |                 | N/A     |
| 3.4.11           | For computer-room applications, equipment with battery systems capable of supplying 750 VA for 5 min require battery disconnect means.                                                |                 | N/A     |
| 4.2.8.1          | Special opening restrictions for enclosures around CRTs with face dimension of 160 mm or more.                                                                                        |                 | N/A     |
| 4.2.9            | Compartment housing high-pressure lamp marked to indicate risk of explosion.                                                                                                          |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Result - Remark | Verdict |
| 4.3.2            | Loading test for equipment with handle(s) used to support more than 9 kg tested at four times the weight of the unit.                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
| 4.3.6            | In addition to the IEC requirements, Direct Plug-in Equipment complies with UL 1310 or CSA 223 mechanical assembly requirements.                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |
| 4.3.8            | Battery packs for both portable and stationary applications are required to comply with special component requirements.                                                                                                                                                                                                                                                                                                                                                           |                 | N/A     |
| 4.3.12           | The maximum quantity of flammable liquid stored in equipment complies with ANSI/NFPA 30(Table NAE.6).                                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
| 4.3.12           | Equipment using replenishable liquids marked to indicate type of liquid to be used.                                                                                                                                                                                                                                                                                                                                                                                               |                 | N/A     |
| 4.3.13.2         | Equipment that produces x-radiation and does not comply with 4.3.12 under all conditions of servicing marked to indicate the presence of radiation where readily visible.                                                                                                                                                                                                                                                                                                         |                 | N/A     |
| 4.3.13.5.1       | Requirements contained in the applicable national codes and regulations apply to lasers (21 CFR 1040 and REDR C1370).                                                                                                                                                                                                                                                                                                                                                             |                 | N/A     |
| 4.7              | Automated information storage equipment intended to contain more than 0.76 m <sup>3</sup> of combustible media requires provision for automatic sprinklers or a gaseous agent extinguishing system.                                                                                                                                                                                                                                                                               |                 | N/A     |
| 4.7.3.1          | Equipment for use in environmental air space other than ducts or plenums provided with metal enclosure or with non-metallic enclosure having adequate fire-resistance and low smoke producing characteristics. Low smoke-producing characteristics evaluated according to UL 2043. Equipment for installation in space used for environmental air as described in Sec. 300-22(c) of the NEC provided with instructions indicating suitability for installation in such locations. |                 | N/A     |
| 4.7.3.1          | Flame spread rating for external surface of combustible material with exposed area greater than 0.9 m <sup>2</sup> or a single dimension greater than 1.8 m; 50 or less for computer room applications or 200 or less for other applications.                                                                                                                                                                                                                                     |                 | N/A     |
| 4.7.3.4          | Wire marked "VW-1" or "FT-1" considered equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | Pass    |
| 5.1.8.2          | Special earthing provisions and instructions for                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                    |                 |         |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                  | Result - Remark | Verdict |
|                  | equipment with high touch current due to telecommunication network connections.                                                                                                                                    |                 |         |
| 5.1.8.3          | Touch current due to ringing voltage for equipment containing telecommunication network leads.                                                                                                                     |                 | N/A     |
| 5.3.7            | Overloading of SELV connectors and printed wiring board receptacles accessible to the operator.                                                                                                                    |                 | N/A     |
| 5.3.7            | Tests interrupted by opening of a component repeated two additional times.                                                                                                                                         |                 | N/A     |
| 5.3.9.1          | Test interrupted by opening of wire or trace subject to certain conditions.                                                                                                                                        |                 | N/A     |
| 6                | Specialized instructions provided for telephones that may be connected to a telecommunications network.                                                                                                            |                 | N/A     |
| 6                | Marking identifying function of telecommunication type connectors not used for connection to a telecommunication network.                                                                                          |                 | N/A     |
| 6.3              | Equipment remotely powered over telecommunication wiring systems provided with specialized markings adjacent to the connection.                                                                                    |                 | N/A     |
| 6.3              | Overcurrent protection incorporated into equipment to provide power over telecommunication wiring system not interchangeable with devices of higher ratings if operator replaceable.                               |                 | N/A     |
| 6.4              | Additional requirements for equipment intended for connection to a telecommunication network using cable subject to overvoltage from power line failures (Fig. 6C).                                                |                 | N/A     |
| 6.4              | Where 26 AWG line cord required by Fig. 6C, either the cord is provided with the equipment or described in the safety instructions.                                                                                |                 | N/A     |
| 7                | Equipment associated with the cable distribution system may need to be subjected to applicable parts of Chapter 8 of the NEC.                                                                                      |                 | N/A     |
| H                | Ionizing radiation measurements made under single fault conditions in accordance with the requirements of the Code of Federal Regulations 21 CFR 1020 and the Canadian Radiation Emitting Devices Act, REDR C1370. |                 | N/A     |
| M.2              | Continuous ringing signals evaluated to Method A subjected to special accessibility considerations.                                                                                                                |                 | N/A     |
| M.4              | Special requirements for message waiting and similar telecommunications signals.                                                                                                                                   |                 | N/A     |

| IEC 60950-1:2005 |                                                                                                                                                                                                                        |                 |         |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| SubClause        | Difference + Test                                                                                                                                                                                                      | Result - Remark | Verdict |
| NAC              | Equipment intended for use with a generic secondary protector marked with suitable instructions.                                                                                                                       |                 | N/A     |
| NAC              | Equipment intended for use with a specific primary or secondary protector marked with suitable instructions.                                                                                                           |                 | N/A     |
| NAD              | Acoustic pressure from an ear piece less than 140 dBA for short duration disturbances, and less than 125 dBA for handsets, 118 dBA for headsets and insert earphones, for long duration disturbances.                  |                 | N/A     |
| NAD              | Equipment connected to a telecommunication and cable distribution networks and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure requirements. |                 | N/A     |
| EE.5             | UL articulated accessibility probe (Fig. EE.3) required for assessing accessibility to document/media shredders, instead of Figure 2A test finger.                                                                     |                 | N/A     |

| IEC 60950-1:2005 |                   |                 |         |
|------------------|-------------------|-----------------|---------|
| SubClause        | Difference + Test | Result - Remark | Verdict |

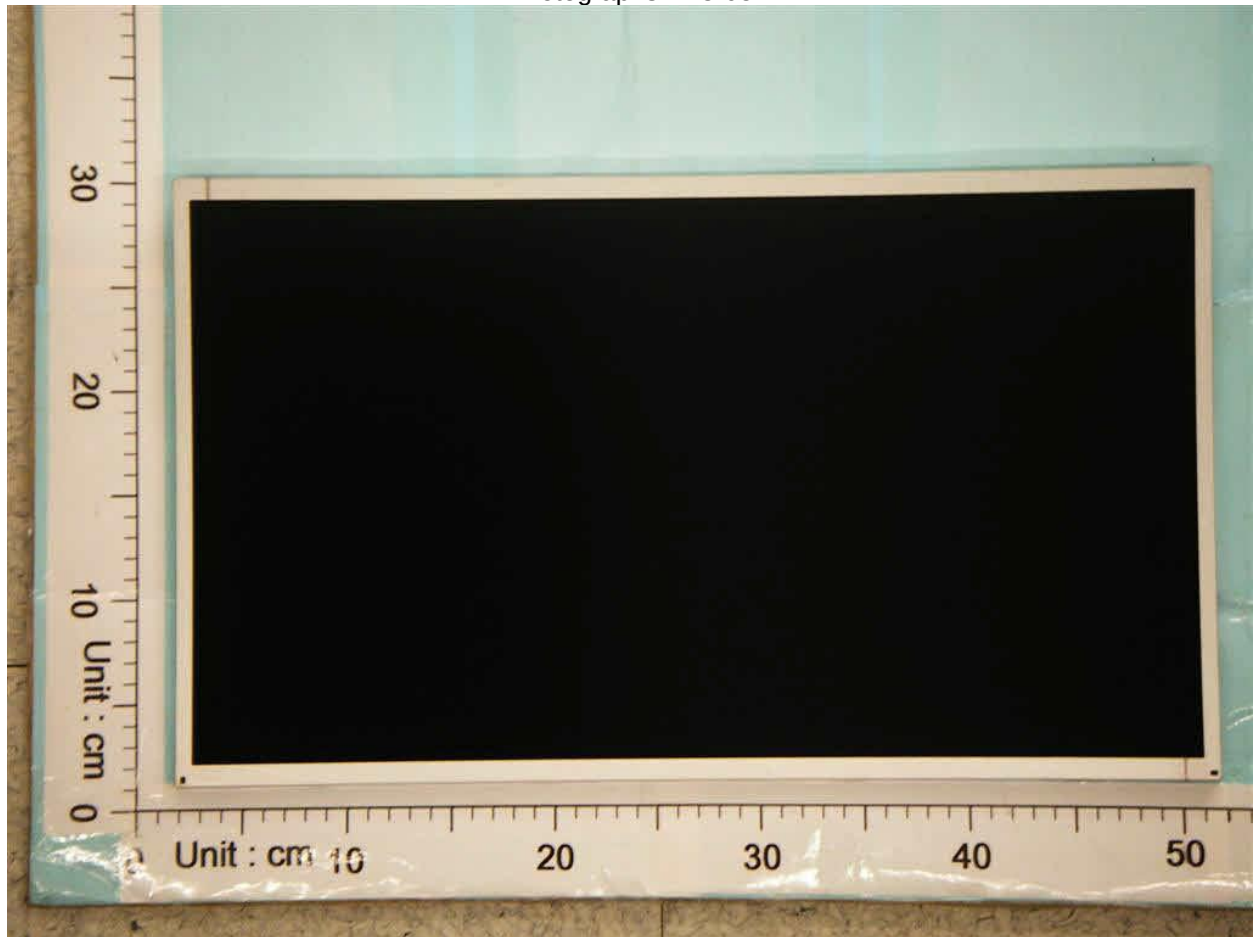
| <b>United Kingdom - Differences to IEC 60950-1:2005 (Second Edition);<br/>Am1:2009 + Am2:2013</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |     |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|
| 2.6.3.3                                                                                           | The current rating of the circuit shall be taken as 13 A, not 16 A.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | N/A |
| 2.7.1                                                                                             | To protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met.                                                                                                                                                  |                                                          | N/A |
| 3.2.1.1                                                                                           | Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a "standard plug" in accordance with Statutory Instrument 1786: 1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.<br><br>NOTE: "Standard plug" is defined in SI 1786: 1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. |                                                          | N/A |
| 3.2.5.1                                                                                           | A power supply cord with conductor of 1.25 mm <sup>2</sup> is allowed for equipment with a rated current over 10A and up to and including 13A.                                                                                                                                                                                                                                                                                                                                                                                  |                                                          | N/A |
| 3.3.4                                                                                             | The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current of over 10 A up to and including 13 A is 1.25 mm <sup>2</sup> to 1.5 mm <sup>2</sup> nominal cross-sectional area.                                                                                                                                                                                                                                                                                                | Evaluated during separate certification of power supply. | N/A |
| 4.3.6                                                                                             | The torque test is performed using a socket outlet complying with BS 1363 and the plug part of DIRECT PLUG-IN EQUIPMENT shall be assessed to BS 1363: Part 1, 12.1, 12.2, 12.3, 12.9, 12.11, 12.12, 12.16 and 12.17, except that the test of 12.17 is performed at not less than 125°C.                                                                                                                                                                                                                                         |                                                          | N/A |
| 4.3.6                                                                                             | Where the metal earth pin is replaced by an Insulated Shutter Opening Device (ISOD), the requirements of clauses 22.2 and 23 also apply.                                                                                                                                                                                                                                                                                                                                                                                        |                                                          | N/A |

## Enclosures

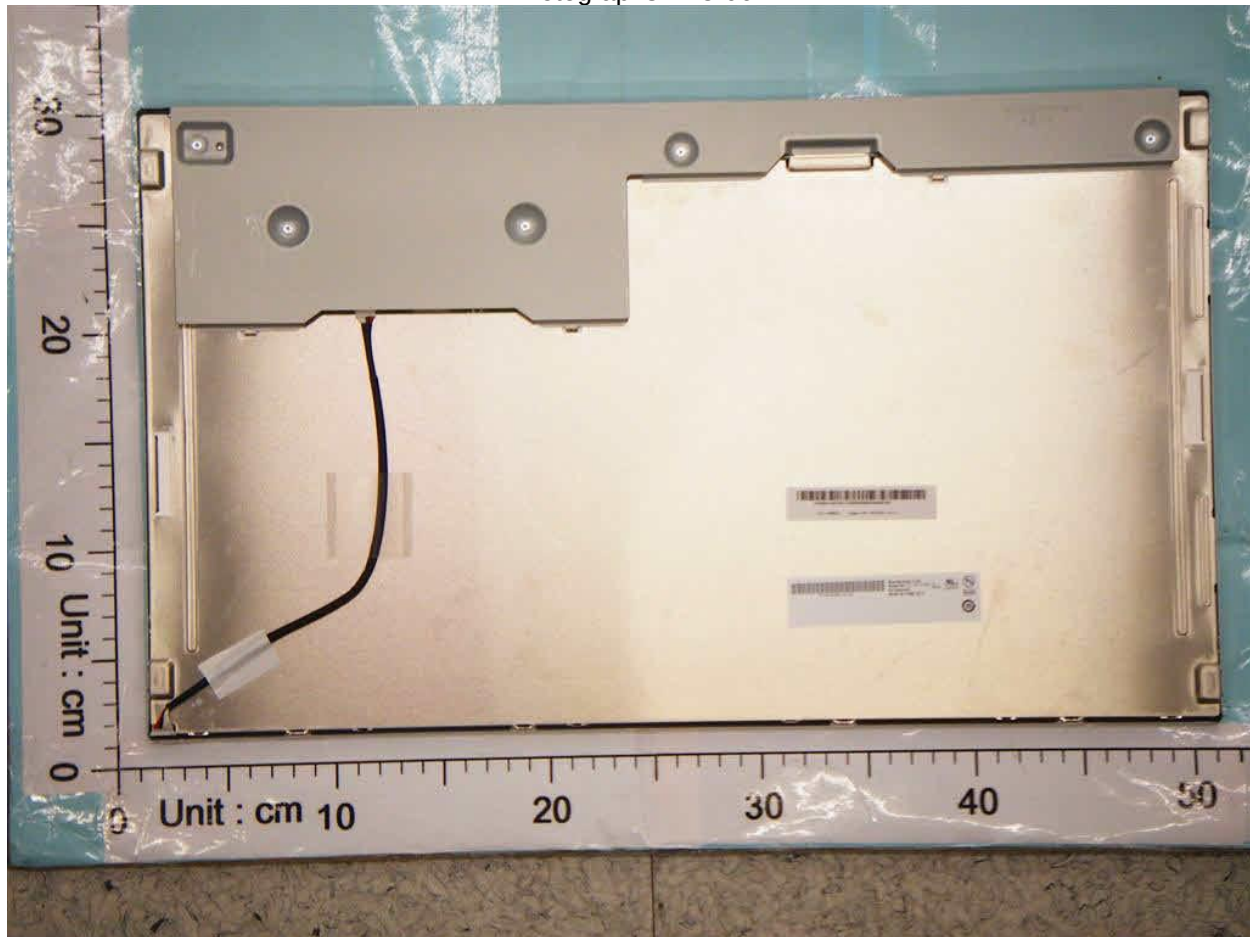
**Enclosures**

| <u>Type</u>   | <u>Supplement Id</u> | <u>Description</u>                                  |
|---------------|----------------------|-----------------------------------------------------|
| Photographs   | 3-05                 | Front View with LED Drive Board (P/N: 21G01-DXX)    |
| Photographs   | 3-06                 | Rar View with LED Drive Board (P/N: 21G01-DXX) -1   |
| Photographs   | 3-07                 | Rear View with LED Drive Board (P/N: 21G01-DXX) - 2 |
| Photographs   | 3-08                 | LED Drive Board (P/N: 21G01-DXX)                    |
| Miscellaneous | 7-02                 | Test Table                                          |
| Miscellaneous | 7-03                 | Manufacturer Declaration Letter                     |
| Miscellaneous | 7-04                 | Test Equipment List                                 |

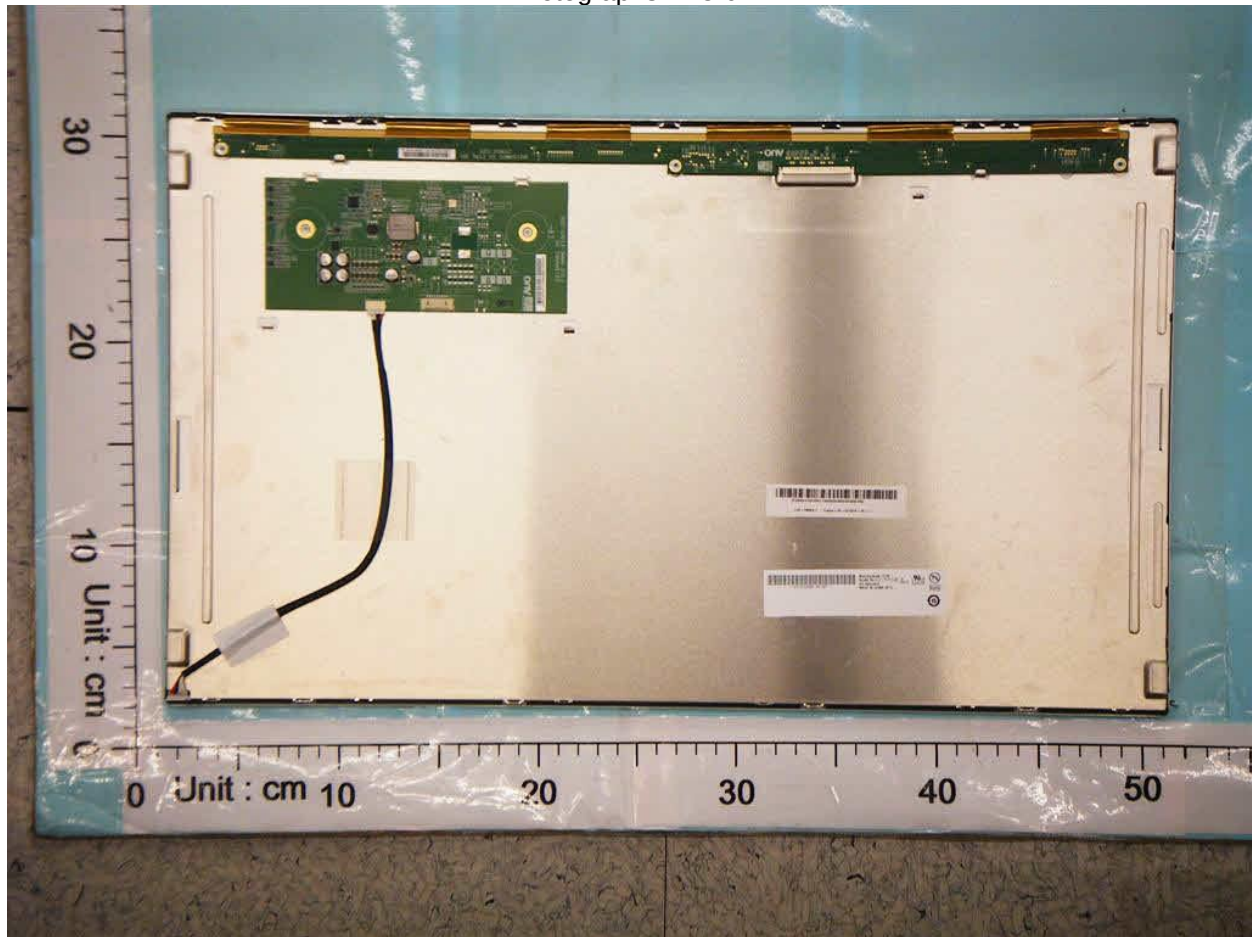
Photographs ID 3-05



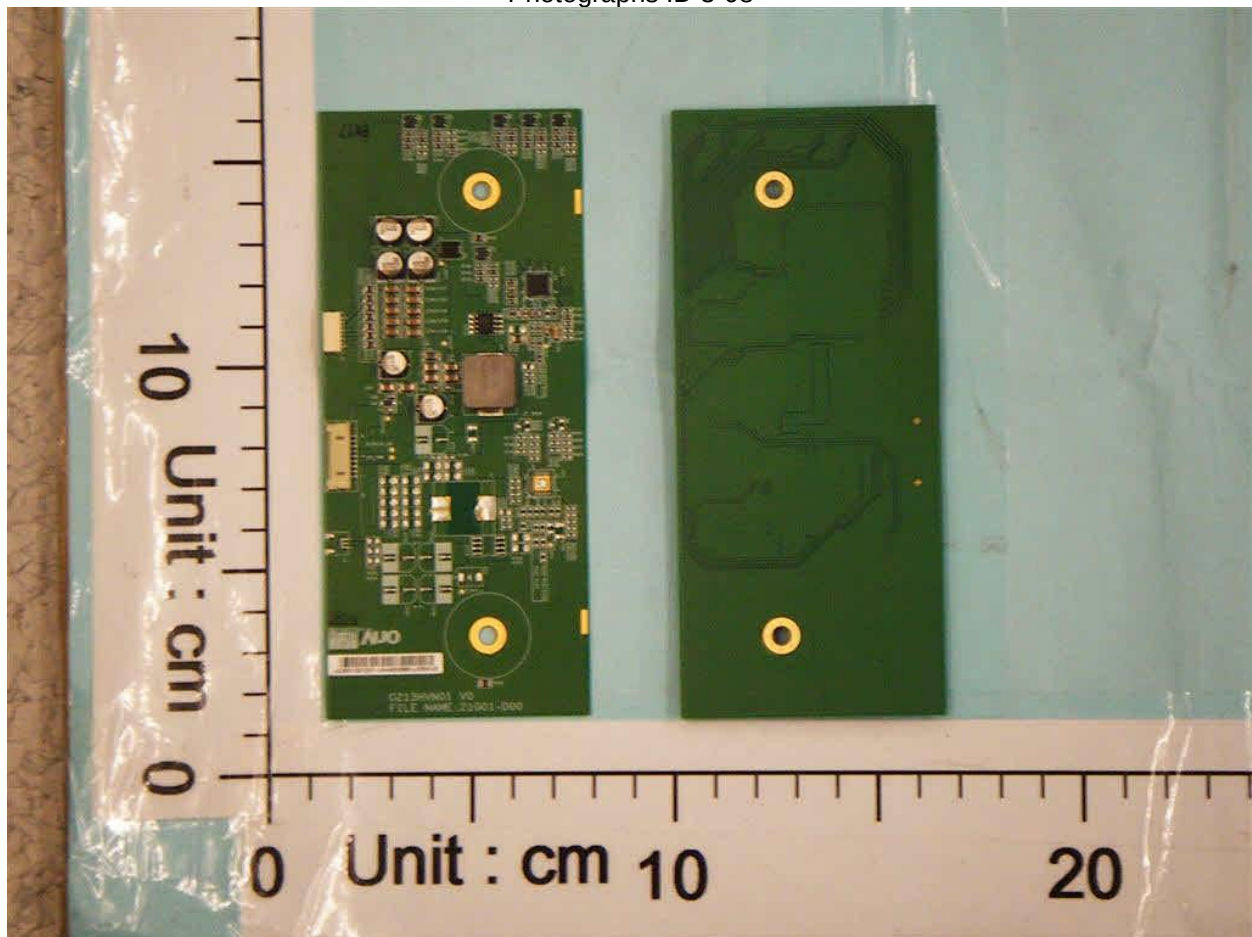
Photographs ID 3-06



Photographs ID 3-07



Photographs ID 3-08



## Enclosures

## Misc ID 7-02

Model No. G215HVN01.0 LED driver board : mfr.: AU Optronics P/N:21G01-D00

|                                                             |                                                     |                            |                     |         |                     |            |
|-------------------------------------------------------------|-----------------------------------------------------|----------------------------|---------------------|---------|---------------------|------------|
| 2.10.3 and 2.10.4                                           | TABLE: clearance and creepage distance measurements |                            |                     |         |                     |            |
| Clearance (cl) and creepage distance (cr)<br>at/of/between: | U <sub>peak</sub><br>(V)                            | U <sub>r.m.s.</sub><br>(V) | Required<br>cl (mm) | cl (mm) | Required<br>cr (mm) | cr<br>(mm) |
| FROM/TO                                                     |                                                     |                            |                     |         |                     |            |
| Functional:                                                 |                                                     |                            |                     |         |                     |            |
| Before L5 to Earth                                          | 12.1                                                | --                         | --                  | --      | --                  | --         |
| After L5 to Earth                                           | 36                                                  | --                         | --                  | --      | --                  | --         |
| After D9 to Earth                                           | 32                                                  | --                         | --                  | --      | --                  | --         |

## Enclosures

Misc ID 7-03

**Manufacturer Declaration for Multiple Factories**

|                                      |                                                                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and address of the Applicant    | AU Optronics Corporation<br>No. 1, Li-Hsin Road 2, Hsinchu Science Park, Hsinchu 300,<br>Taiwan, R.O.C.                                                        |
| Name and address of the Manufacturer | AU OPTRONICS CORP.<br>NO. 23, LI- HSIN RD., HSINCHU SCIENCE PARK,<br>HSINCHU, 30078, TAIWAN                                                                    |
| Name and address of the Factory(ies) | DARWIN PRECISIONS (XIAMEN) CORP<br>3089 NORTH OF XIANG'AN RD<br>XIANG'AN BRANCH TORCH HI-TECH<br>INDUSTRIAL DEVELOPMENT ZONE<br>XIAMEN<br>FUJIAN 361102 CHINA  |
|                                      | RADIANT OPTO-ELECTRONICS (SUZHOU) CO LTD<br>1621 E JIANGXIN RD<br>ECONOMIC DEVELOPMENT AREA<br>WUJIANG<br>JIANGSU 215011 CHINA                                 |
|                                      | Shenzhen Millionbest Optoelectronics Co Ltd<br>E of 6th Fl Bldg 3<br>Tangwei Hua-Feng Technology Park<br>Bao'an District<br>Shenzhen<br>Guangdong 518103 CHINA |
|                                      | DARWIN PRECISIONS (SUZHOU) CORP<br>NO 11 TINGXIN STREET WEITING ZHEN<br>SUZHOU INDUSTRIAL PARK<br>SUZHOU                                                       |

## Enclosures

## Misc ID 7-03

|  |                                                                                                                        |
|--|------------------------------------------------------------------------------------------------------------------------|
|  | JIANGSU 215021 CHINA                                                                                                   |
|  | ORTECH ELECTRONICS SUZHOU CO LTD<br>399 JINHU WEST RD<br>WUJIANG ECONOMIC DEVELOPMENT<br>WUJIANG JIANGSU CHINA         |
|  | FORTECH ELECTRONICS (KUNSHAN) CO LTD<br>555 TONGFENG E RD<br>EXPLOITATION AREA<br>KUNSHAN<br>JIANGSU 215300 CHINA      |
|  | CORETRONIC (SUZHOU) CO LTD<br>88 QUNXING 3 RD<br>SUZHOU INDUSTRIAL PARK<br>SUZHOU JIANGSU CHINA                        |
|  | BRIVIEW (HF) CORP<br>176 YUNER RD HEFEI ECONOMIC &<br>TECHNOLOGICAL<br>DEVELOPMENT AREA<br>HEFEI<br>ANHUI 230601 CHINA |
|  | AU OPTRONICS ( LONGKE ) CORP<br>228 LONGKE ST<br>LONGTAN TOWNSHIP<br>TAOYUAN COUNTY<br>325 TAIWAN                      |

## Enclosures

## Misc ID 7-03

|  |                                                                                                                                     |
|--|-------------------------------------------------------------------------------------------------------------------------------------|
|  | QISDA ELECTRONICS (SUZHOU) CO LTD<br>169 ZHUJIANG RD<br>NEW DISTRICT<br>SUZHOU<br>JIANGSU 215129 CHINA                              |
|  | AU OPTRONICS MANUFACTURING (SHANGHAI) CORP<br>3 LN 58 SAN-ZHUANG RD<br>SONGJIANG EXPORT PROCESSING ZONE<br>SHANGHAI<br>201600 CHINA |
|  | AU OPTRONICS (SUZHOU) CORP<br>No 398 Suhong Zhong Road<br>Suzhou Industrial Park<br>Suzhou Jiangsu CHINA                            |

This form is to acknowledge that the above information has been reviewed and the material has been found to be accurate as stated. This is also to record client's confirmation that above factories manufacture product(s) that are equal to those submitted for testing and certification. (Refer to IECCE 02, Sub-clause 6.2.5: "When the application covers more than one factory, the address of each factory shall be stated in the CB Test Certificate and the NCB shall take steps to ensure that the products from all the factories are equal. That shall be confirmed in the Test Report.")

(Signature, signed by Manufacturer listed in CB Test Certificate and CB Test Report)

Name: Benson Cheng 

Title: Engineer

Date: 2017/6/30

Company Name and Address: AU Optronics Corporation, No. 23 Li-Hsin Rd, Hsinchu Science Park, Hsinchu 30078, Taiwan, R.O.C.





Test Report issued under  
the responsibility of:



**TEST REPORT**  
**IEC 60950-1**  
**Information technology equipment - Safety -**  
**Part 1: General requirements**

**Report Reference No** ..... : E204356-A255-CB-2

**Date of issue** ..... : 2017-07-04

**Total number of pages** ..... : 12

**CB Testing Laboratory** ..... : Underwriters Laboratories Taiwan Co., Ltd.

**Address** ..... : 260 Da-Yeh Road, 112 Peitou Taipei City, Chinese Taipei

**Applicant's name** ..... : AU OPTRONICS CORP.

**Address** ..... : 1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300,  
TAIWAN

**Test specification:**

**Standard** ..... : IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013

**Test procedure** ..... : CB Scheme

**Non-standard test method** ..... : N/A

**Test Report Form No.** ..... : IEC60950\_1F

**Test Report Form originator** ..... : SGS Fimko Ltd

**Master TRF** ..... : Dated 2014-02

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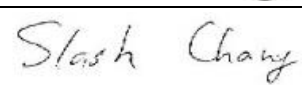
If this test Report is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer**

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

|                                    |                                                                                                                                                                              |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test item description</b> ..... | LCD Panel (LED Backlight)                                                                                                                                                    |
| Trade Mark .....                   | AU Optronics                                                                                                                                                                 |
| Manufacturer .....                 | AU OPTRONICS CORP.<br>1 LI-HSIN RD 2, HSINCHU SCIENCE PARK, HSINCHU, 300,<br>TAIWAN                                                                                          |
| Model/Type reference .....         | G215HVNZZZZ, G215HANZZZZ (Z may be any alphanumeric<br>character or blank for marketing purpose only, and no impact safety<br>related constructions and critical components) |
| Ratings .....                      | (Optional)<br>12 Vdc, 2.08A Max.                                                                                                                                             |

|                                                                         |                                                                                                                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Testing procedure and testing location:</b>                          |                                                                                                                                                       |
| <input checked="" type="checkbox"/> <b>CB Testing Laboratory</b>        | Testing location / address .....: Underwriters Laboratories Taiwan Co., Ltd. 260 Da-Yeh Road, 112 Peitou Taipei City, Chinese Taipei                  |
| <input type="checkbox"/> <b>Associated CB Test Laboratory</b>           | Testing location / address .....                                                                                                                      |
|                                                                         | Tested by (name + signature) .....: David Tseng / Project Handler  |
|                                                                         | Approved by (name + signature).....: Slash Chang / Reviewer        |
| <input type="checkbox"/> <b>Testing Procedure: TMP/CTF Stage 1</b>      |                                                                                                                                                       |
|                                                                         | Testing location / address .....                                                                                                                      |
|                                                                         | Tested by (name + signature) .....: _____                                                                                                             |
|                                                                         | Approved by (name + signature).....: _____                                                                                                            |
| <input type="checkbox"/> <b>Testing Procedure: WMT/CTF Stage 2</b>      |                                                                                                                                                       |
|                                                                         | Testing location / address .....                                                                                                                      |
|                                                                         | Tested by (name + signature) .....: _____                                                                                                             |
|                                                                         | Witnessed by (name + signature) ..: _____                                                                                                             |
|                                                                         | Approved by (name + signature).....: _____                                                                                                            |
| <input type="checkbox"/> <b>Testing Procedure: SMT/CTF Stage 3 or 4</b> |                                                                                                                                                       |
|                                                                         | Testing location / address .....                                                                                                                      |
|                                                                         | Tested by (name + signature) .....: _____                                                                                                             |
|                                                                         | Approved by (name + signature).....: _____                                                                                                            |
|                                                                         | Supervised by (name + signature) ..: _____                                                                                                            |
| <input type="checkbox"/> <b>Testing Procedure: RMT</b>                  |                                                                                                                                                       |
|                                                                         | Testing location / address .....                                                                                                                      |
|                                                                         | Tested by (name + signature) .....: _____                                                                                                             |
|                                                                         | Approved by (name + signature).....: _____                                                                                                            |
|                                                                         | Supervised by (name + signature) ..: _____                                                                                                            |

**List of Attachments**

National Differences (0 pages)

Enclosures (5 pages)

**Summary of Testing:**

No tests were conducted

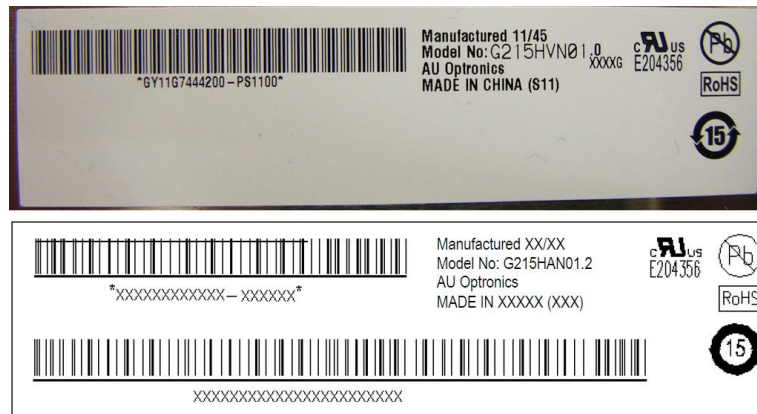
**Summary of Compliance with National Differences:**

Countries outside the CB Scheme membership may also accept this report.

List of countries addressed: AR, AT, AU, BE, BG, BY, CA, CH, CN, CS, CZ, DE, DK, ES, EU, FI, FR, GB, GR, HU, IE, IL, IN, IT, JP, KR, MY, NL, NO, NZ, PL, PT, RO, SA, SE, SG, SI, SK, UA, US, ZA

**Copy of Marking Plate**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



**Test item particulars :**

Equipment mobility .....: for building-in  
 Connection to the mains .....: not directly connect to mains  
 Operating condition .....: continuous  
 Access location .....: operator accessible  
 Over voltage category (OVC) .....: N/A  
 Mains supply tolerance (%) or absolute mains supply values .....: N/A  
 Tested for IT power systems .....: No  
 IT testing, phase-phase voltage (V) .....: N/A  
 Class of equipment .....: Class III (supplied by SELV)  
 Considered current rating of protective device as part of the building installation (A) .....: N/A  
 Pollution degree (PD) .....: PD 2  
 IP protection class .....: IP X0  
 Altitude of operation (m) .....: Up to 5,000  
 Altitude of test laboratory (m) .....: Up to 2,000  
 Mass of equipment (kg) .....: 2.3

**Possible test case verdicts:**

- test case does not apply to the test object .....: N / A  
 - test object does meet the requirement .....: P(Pass)  
 - test object does not meet the requirement .....: F(Fail)

**Testing:**

Date(s) of receipt of test item .....: N/A  
 Date(s) of Performance of tests .....: N/A

**General remarks:**

"(see Enclosure #)" refers to additional information appended to the report.  
 "(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

**Manufacturer's Declaration per Sub Clause 4.2.5 of IEC 60950-1:**

Yes

The application for obtaining a CB Test Certificate includes more than one factory and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....

When differences exist, they shall be identified in the General Product Information section.

**Name and address of Factory(ies):**

AU OPTRONICS ( LONGKE ) CORPORATION  
 NO. 228, LONGKE ST, LONGTAN TOWNSHIP, TAOYUAN  
 COUNTY 32542, TAIWAN

AU OPTRONICS ( SUZHOU ) CORPORATION  
 398 SUHONG ZHONG RD. SUZHOU INDUSTRIAL PARK,

JIANGSU 215021, P.R. CHINA

AU OPTRONICS MANUFACTURING (SHANGHAI) CORP.  
NO. 3, LN 58, SAN-ZHUANG RD., SONGJIANG EXPORT  
PROCESSING ZONE, SHANGHAI, P.R. CHINA

DARWIN PRECISIONS (SZ) CORPORATION  
NO. 11, TINGXIN STREET, SUZHOU INDUSTRIAL PARK  
SUZHOU 215021 P.R. CHINA

FORTECH ELECTRONICS(SUZHOU) CO.,LTD  
NO.399 JIN HU WEST ROAD ,WUJIANG ECONOMIC  
DEVELOPMENT JIANGSU PROVINCE 215200, P.R. CHINA

QISDA ELECTRONICS (SUZHOU) CO LTD  
NO.169 ZHUJIANG ROAD, NEW DISTRICT, SUZHOU, JIANGSU  
215129, P.R. CHINA.

FORTECH ELECTRONICS(KUNSHAN) CO.,LTD  
NO. 555, TONGFENG EAST RD., ECONOMICAL EXPLOITATION  
AREA KUNSHAN CITY, JIANGSU PROVINCE 215334, P.R.  
CHINA

RADIANT OPTO-ELECTRONICS (SUZHOU) CO., LTD  
NO.1621, JIANGXING EAST RD, ECONOMIC DEVELOPING  
AREA, WUJIANG JIANGSU 215011, P.R. CHINA

DARWIN PRECISIONS (XIAMEN) CORP  
3089 NORTH OF XIANG'AN RD XIANG'AN BRANCH TORCH HI-  
TECH INDUSTRIAL DEVELOPMENT ZONE XIAMEN FUJIAN  
361102, P.R. CHINA

BRIVIEW (HEFEI) CORP.  
176 YUNER RD HEFEI ECONOMIC &TECHNOLOGICAL  
DEVELOPMENT AREA, HEFEI ANHUI 230601, P.R. CHINA

CORETRONIC (SUZHOU) CO., LTD  
NO.68 QUNXING 3 ROAD,SUZHOU INDUSTRIAL PARK, CHINA.

SHENZHEN MILLIONBEST OPTOELECTRONICS CO.,LTD.  
EAST OF 6 FLOOR, BUILDING 3, TANGWEI HUA-FENG  
TECHNOLOGY PARK,, BAOAN' DISTRICT SHENZHEN. CHINA

JIANGSU ECHOM SCIENCE & TECHNOLOGY CO LTD.  
168 QIANJIN EAST RD., ECONOMIC AND TECHNOLOGICAL  
DEVELOPMENT DISTRICT, KUNSHAN, JIANGSU 215300  
CHINA.

RADIANT (GUANGZHOU) OPTO - ELECTRONICS CO LTD.  
11 XINRUI RD., SCIENCE TOWN , HI-TECH INDUSTRIAL  
DEVELOPMENT ZONE, GUANGZHOU, GUANGDONG 510663,  
CHINA

**GENERAL PRODUCT INFORMATION:**

## Report Summary

The original report was modified on 2018-03-22 to include the following changes/additions:

-This test Report should be read in conjunction with the original report No.: E204356-A255-CB-1 issued 2017-07-04, With CB Certificate (DK-64889-UL).

-This Report was deemed to be technical amendment, due to:

1. Added an alternative model name with no LED driver board.
2. Updated factory and manufacturer addresses.
3. Added 2 factories.
4. Altitude of operation was changed to 5000m.

- No tests were considered necessary

## Product Description

(TFT)LCD Panel secured on metal chassis, and supplied by SELV. Boost with LED driver board.

## Model Differences

Model G215HVNZZZZ is similar with G215HANZZZZ except for LED driver board.

## Additional Information

- This report is a reissue of CBTR Ref. No.: E204356-A255-CB-1-Original and E204356-A255-CB-1-Correction-1, CB Test Certificate Ref. No.: DK-25063-UL due to upgrade standard and update the Factories information. Based on the previously conducted testing and the review of product technical documentation including photos, schematics, wiring diagrams and similar, has been determined that the product continues to comply with the standard.

- No tests conducted under this investigation due to reissue of CB Test Report Ref. No. E204356-A255-CB-1, All required tests were carried out under the original investigation.

- The label is a draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

## Technical Considerations

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50°C
- The product was investigated to the following additional standards: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 (which includes all European national differences, including those specified in this test report).

## Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

- The following secondary output circuits are SELV: all outputs
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The investigated Pollution Degree is: 2
- The following end-product enclosures are required: Mechanical, Fire

- The component is evaluated for use in SELV circuits. --
- Safety Instruction Should be considered in end-product evaluation --
- To be determined in end product. The Maximum temperature (Tmax) for Panel Surface should not exceed 95 degree C. --

## Abbreviations used in the report:

|                                                        |      |                                  |       |
|--------------------------------------------------------|------|----------------------------------|-------|
| - normal condition .....                               | N.C. | - single fault condition .....   | S.F.C |
| - operational insulation .....                         | OP   | - basic insulation .....         | BI    |
| - basic insulation between parts of opposite polarity: | BOP  | - supplementary insulation ..... | SI    |
| - double insulation .....                              | DI   | - reinforced insulation .....    | RI    |

Indicate used abbreviations (if any)

| IEC 60950-1 |                                              |                                                                                                                                                                            |         |
|-------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Clause      | Requirement + Test                           | Result - Remark                                                                                                                                                            | Verdict |
| 1.7.1.2     | Model identification or type reference ..... | G215HVNZZZZ,<br>G215HANZZZZ (Z may be any alphanumeric character or blank for marketing purpose only, and no impact safety related constructions and critical components). | Pass    |
| 4.3.13.5    | Lasers (including laser diodes) and LEDs     | For panel with LED backlight, the luminance is far less than 10000 cd/m <sup>2</sup> . With reference to sub clause 4.1 of IEC 62471:2006 no further test is necessary.    | N/A     |

| IEC 60950-1 |                    |                 |         |
|-------------|--------------------|-----------------|---------|
| Clause      | Requirement + Test | Result - Remark | Verdict |

| 1.5.1                                                                                  | <b>TABLE: list of critical components</b> |                                                                         |                                          |                            |                                     | Pass |
|----------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|----------------------------|-------------------------------------|------|
| object/part or Description                                                             | manufacturer/ trademark                   | type/model                                                              | technical data                           | standard (Edition or year) | mark(s) of conformity <sup>1)</sup> |      |
| 01. Panel                                                                              | AU Optronics Corp.                        | G215HVNZZZZ, G215HANZZZZ (Z may be any alphanumeric character or blank) | TFT Type, 22"                            | --                         | --, --                              |      |
| 02. PWB                                                                                | Various                                   | Various                                                                 | Minimum V-1 or better, 105 degree C min. | UL 796                     | UL, --                              |      |
| Supplementary information:                                                             |                                           |                                                                         |                                          |                            |                                     |      |
| <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039. |                                           |                                                                         |                                          |                            |                                     |      |
| The CBTL has verified the component information.                                       |                                           |                                                                         |                                          |                            |                                     |      |

| IEC 60950-1 |                    |                 |         |
|-------------|--------------------|-----------------|---------|
| Clause      | Requirement + Test | Result - Remark | Verdict |

|                                            |                                    |           |           |           |           |                   |                   |
|--------------------------------------------|------------------------------------|-----------|-----------|-----------|-----------|-------------------|-------------------|
| 4.5                                        | <b>TABLE: thermal requirements</b> |           |           |           |           |                   | Pass              |
|                                            | Supply voltage (V):                | 12 Vdc    | 12 Vdc    | --        | --        | --                | ---               |
|                                            | Ambient Tmin (°C):                 | See below | See below | --        | --        | --                | ---               |
|                                            | Ambient Tmax (°C):                 | --        | --        | --        | --        | --                | ---               |
| Maximum measured temperature T of part/at: |                                    | T (°C) #1 | T (°C) #2 | T (°C) #3 | T (°C) #4 | T (°C) #5         | Allowed Tmax (°C) |
| 08. Panel External Surface Part            |                                    | 29.3      | 57.0      | --        | --        | --                | 95                |
| temperature T of winding:                  | t1 (°C)                            | R1 (Ohm)  | t2 (°C)   | R2 (ohm)  | T (°C)    | Allowed Tmax (°C) | Insulation class  |
| supplementary information:                 |                                    |           |           |           |           |                   |                   |

## **Enclosures**

| <u>Type</u>   | <u>Supplement Id</u> | <u>Description</u>                                  |
|---------------|----------------------|-----------------------------------------------------|
| Photographs   | 3-05                 | Front View with LED Drive Board (P/N: 21G01-DXX)    |
| Photographs   | 3-06                 | Rar View with LED Drive Board (P/N: 21G01-DXX) -1   |
| Photographs   | 3-07                 | Rear View with LED Drive Board (P/N: 21G01-DXX) - 2 |
| Photographs   | 3-08                 | LED Drive Board (P/N: 21G01-DXX)                    |
| Photographs   | 3-09                 | Rear View for model G215HANZZZZ                     |
| Miscellaneous | 7-02                 | Test Table                                          |
| Miscellaneous | 7-03                 | Manufacturer Declaration Letter                     |
| Miscellaneous | 7-04                 | Test Equipment List                                 |
| Miscellaneous | 7-05                 | Manufacturer Declaration Letter                     |

Photographs ID 3-09



Misc ID 7-05

**Manufacturer Declaration for Multiple Factories**

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and address of the Applicant    | AU Optronics Corporation<br>No. 1, Li-Hsin Road 2, Hsinchu Science Park, Hsinchu 300,<br>Taiwan, R.O.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Name and address of the Manufacturer | AU Optronics Corporation<br>No. 1, Li-Hsin Road 2, Hsinchu Science Park, Hsinchu 300,<br>Taiwan, R.O.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Name and address of the Factory(ies) | AU Optronics ( Longke ) Corporation<br>No. 228, Longke St, Longtan Township, Taoyuan County<br>32542, Taiwan<br><br>AU Optronics ( Suzhou ) Corporation<br>398 Suhong Zhong Rd, Suzhou Industrial Park, Jiangsu<br>215021, P.R. China<br><br>AU Optronics Manufacturing (Shanghai) Corp.<br>No. 3, Ln 58, San-Zhuang Rd, Songjiang Export<br>Processing Zone, Shanghai, P. R. China<br><br>Darwin Precisions (SZ) Corporation<br>No. 11, Tingxin Street, Suzhou Industrial Park Suzhou<br>215021 P.R. China<br><br>FORTECH ELECTRONICS(SUZHOU) CO.,LTD<br>No.398 jin Hu West Road ,Wujiang Economic Development<br>JiangSu Province 215200, P.R. China<br><br>QISDA ELECTRONICS (SUZHOU) CO LTD<br>No.169 Zhujiang Road, New District, Suzhou, Jiangsu<br>215129, P.R. China. |

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|  |                                                                                                                                                                  |
|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | FORTECH ELECTRONICS(KUNSHAN) CO.,LTD<br>NO. 555, TongFeng East Rd., Economical exploitation area<br>Kunshan City, Jiangsu Province 215334, P.R. China            |
|  | Radiant Opto-Electronics (Suzhou) Co., Ltd<br>No.1621, JiangXing East RD, Economic Developing Area,<br>Wujiang Jiangsu 215011, P.R. China                        |
|  | DARWIN PRECISIONS (XIAMEN) CORP<br>3089 NORTH OF XIANG'AN RD XIANG'AN BRANCH<br>TORCH HI-TECH INDUSTRIAL DEVELOPMENT ZONE<br>XIAMEN FUJIAN 361102, P.R. China    |
|  | Brview (Hefei) Corp.<br>176 YUNER RD HEFEI ECONOMIC &TECHNOLOGICAL<br>DEVELOPMENT AREA, HEFEI ANHUI 230601, P.R. Chin                                            |
|  | Coretronic (Suzhou) Co., LTD<br>No.68 QunXing 3 Road,Suzhou Industrial Park, China.                                                                              |
|  | SHENZHEN Millionbest Optoelectronics CO.,LTD.<br>East Of 6 Floor, Building 3, TANGWEI HUA-FENG<br>technology Park,, Baoan District SHENZHEN.                     |
|  | JIANGSU ECHOM SCIENCE & TECHNOLOGY CO LTD.<br>168 Qianjin East Rd., Economic And Technological<br>Development District, Kunshan, Jiangsu 215300 CHINA.           |
|  | RADIANT (GUANGZHOU) OPTO - ELECTRONICS CO<br>LTD.<br>11 Xinrui Rd., Science Town , HI-Tech Industrial<br>Development Zone, Guangzhou, Guangdong 510663,<br>CHINA |

This form is to acknowledge that the above information has been reviewed and the material has been found to be accurate as stated. This is also to record client's confirmation that above factories manufacture product(s) that are equal to those submitted for testing and

Issue Date: 2017-07-04  
Amendment 1 2018-03-22

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Report Reference #

E204356-A255-CB-2

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certification. (Refer to IEC60335-1, Sub-clause 6.2.5: "When the application covers more than one factory, the address of each factory shall be stated in the CB Test Certificate and the NCB shall take steps to ensure that the products from all the factories are equal. That shall be confirmed in the Test Report.")

(Signature, signed by Manufacturer listed in CB Test Certificate and CB Test Report)



Name: Joan Chen  
Title: Engineer  
Date: 2018/03/16