

☒ Preliminary Specifications

☐ Final Specifications

Title	DC to DC converter Board 24V to 24V/12V
Model Name	PB-GL02-XX
Version	Rev.V2

Customer	
Approved by	Date
Notice : This Specification is subject to change without notice.	

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Contents

1.GENERAL FUNCTION.....	4
2.INTERFACE	4
3.ELECTRICAL CHARACTERISTICS.....	5
4.INTERFACE CHARACTERISTICS.....	6
5.MECHANICAL CHARACTERISTICS	7

TWScreen

Revised Record

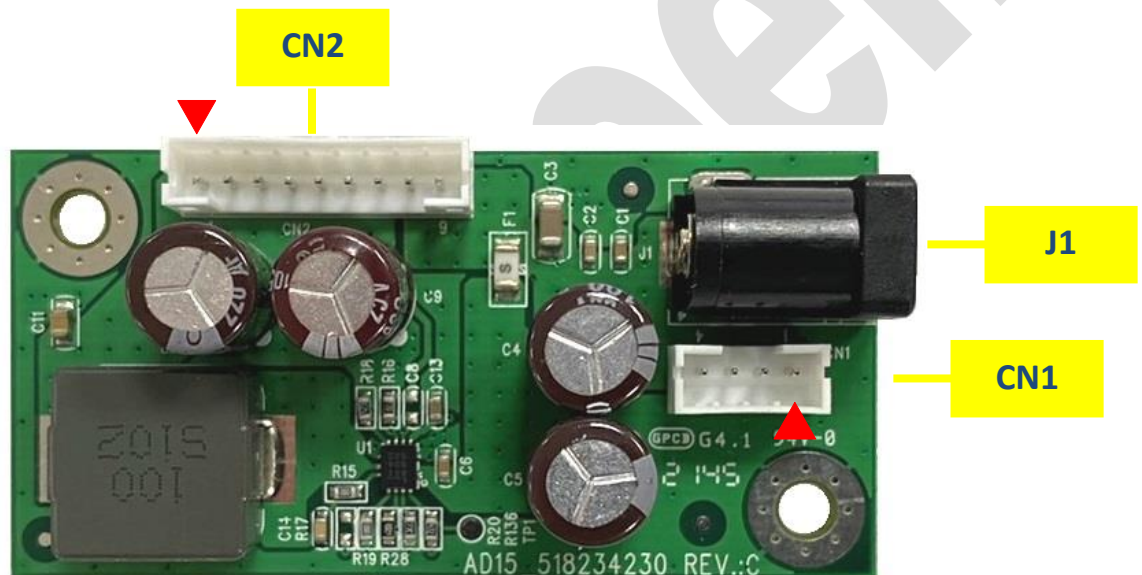
Version	Date	Revised Content/Summary	Page	Remark
0	2021/12/16	Final Specification was first issued	All	
1	2022/01/26	Update 5.Mechanical Characteristics Photo	7	
2	2022/5/22	Update 2.Interface Photo	4	

1.General Function

This is a wide Voltage and high efficiency DC to DC converter board. This converter is designed to operate at 24V and provide a 12V regulated output with load current of 3A.

This Product Specification is made to be the standard of TWScreen manufactured DC to DC converter board such a standard will be followed in TWScreen production, shipment, and quality inspection.

2.Interface



- 2-1. J1 : Input Connector
- 2-2. CN1 : Input Connector
- 2-3. CN2 : Output Connector

3.Electrical Characteristics

<u>Parameter</u>			<u>Min.</u>	<u>Typ.</u>	<u>Max.</u>	<u>Unit</u>
Input	Voltage	Vin	---	24	---	V
	Current	Iin	3	---	---	A
Output (by pass)	Voltage	Vout	---	24	---	V
	Current	Iout	---	---	4	A
Output	Voltage	Vout	10.8	12	13.2	V
	Current	Iout	---	---	3	A
	Ripple	V-p-p	---	50	---	mV
Efficiency		Eff.	90	---	98	%
Operating temp.		TOP	-30	---	70	°C
Storage temp.		TST	-40	---	85	°C

*** Depend on Input Voltage 24V

4.Interface Characteristics

4.1. Input Connector

Location – J1 : DC JACK 2.0mm (option)

Location – CN1 : 4pin wafer pitch 2.0mm STM M24264 or equivalent

Pin Assign and Definition

Pin No.	Symbol	Pin No.	Symbol
1	GND	3	24V input
2	GND	4	24V input

4.2. Output Connector

Location – CN2 : 9pin wafer pitch 2.0mm STM M24269 or equivalent

Pin Assign and Definition

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	12V output	4	12V output	7	GND
2	12V output	5	GND	8	24V output
3	12V output	6	GND	9	24V output

5.Mechanical Characteristics

Dimension: 60(L) * 30(W) * 16(H) mm

