

SPECIFICATION CONTENT LIST

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Model : AB-A502-14: TWO LAMPS

DC TO AC INVERTER SPECIFICATION

The DC to AC inverter is designed as a low noise, high frequency, high efficiency and as a low profile efficiency and light weight switching power supply.

1. Features

- (1) Constant current output to control brightness.
- (2) Auto shut off during.
- (3) High Performance, High Efficiency.
- (4) Fixed output frequency does not effect by brightness adjustment

2. Application

LCD Type	LCD Part No	Brand	Remark
7"	TD070WGCB2	TOPPLY	
10.4"	LQ104V1DG51	SHARP	

3. Operating Conditions

Item	Mark	Condition	Min	Max	Unit	Remark
Operating Temperature	Top	Ha=90% RH under	0	65	°C	
Storage Temperature	Tstg	Ha=95% RH under	-10	80	°C	
Operating Humidity	Hop	Ta=0~65°C	20	90	% RH	
Storage Humidity	Hstg	Ta=20~80°C	-	95	% RH	

4. Operating Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Input Voltage	Vin	GND=0V	10.8	12	13.2	V	
Input Current (Low Brightness)	I in L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	90	110	120	mA	
Input Current (High Brightness)	I in H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	220	250	280	mA	
Lamp Current (Low Brightness)	I out L	Vin=TYP.±1% ON VR=MIN (Iout=MIN)	1.0	1.5	2.0	mA rms	
Lamp Current (High Brightness)	I out H	Vin=TYP.±1% ON VR=MAX (Iout=MAX)	3.0	4.0	5.0	mA rms	
Working Frequency			35	40	45	KHZ	
Brightness Control		Connection of Voltage	5	-	0	V	

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5. Connection pin assignment

5-1. A (P1) Input Connector: 5 Pins , Pitch:2.0mm

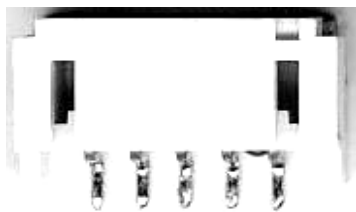
PIN No	Symbol	Description
1	Vin	DC+12V
2	GND	Ground
3	Brightness	0~5Vdc control, 0V:Max , 5V:Min
4	GND	Ground
5	Enable	ON/OFF control ON=+5V OFF=0V

5-2 (P2&P3) Output Connector

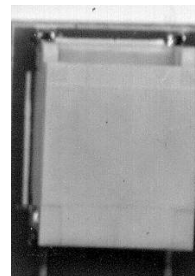
PIN No	Symbol	Description
1	Output	Lamp Voltage High
2	Output	Lamp Voltage Low

5-3 Connector Model No & Brand

Connector No.	Connector Parts No	Brand
P1	2003P05SOT	LANDWIN
P2	3502P0210T-1	LANDWIN
P3	3502P0210T-1	LANDWIN



2003P05SOT (Pin1)



3502P0210T-1 (pin1)

6. MECHANICAL CHARACTERISTICS

Dimension: 120mm * 17mm * 9.8mm

Weight: MAX. 20g

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PCB Dimension & Screw Hole Location (Diameter 3mm):

Screw hole = 3.0mm

Hole center to PCB edge = 3.5 mm

