

DC-AC INVERTER UNIT

PS-DA0109-01(S) (4 W SINGLE OUTPUTS)

(PRELIMINARY INFORMATION)

DESCRIPTION :

This low profile DC to AC Inverter is developed for single lamps.

APPLICABLE LCD:

- Lamp Voltage 800 Vrms
- Lamp Current 4 mArms
- Lamp Start Up Voltage 1.300 Vrms (Vin : 10 Vdc)



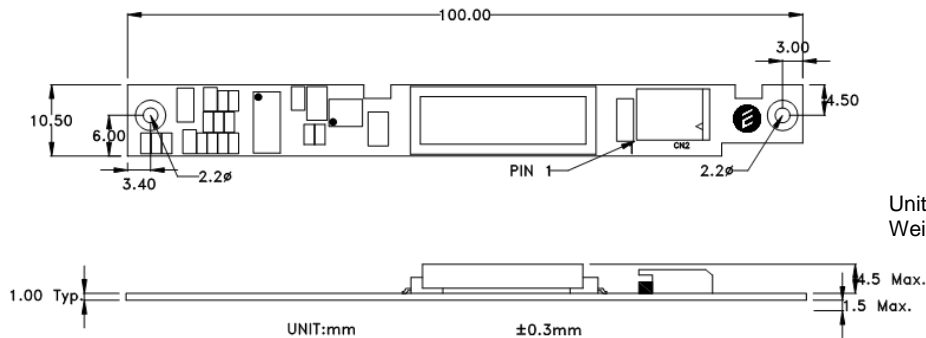
FEATURES :

- Remote ON/OFF
- Open Lamp Detection
- RoHS compliant (S)

TEMPERATURE & HUMIDITY :

- Operating Temperature Range 0°C ~ +50°C
- Storage Temperature Range -20°C ~ +85°C
- Humidity 95 %RH max

DIMENSIONS : L x W x H 100 x 11 x 4,5 mm



Unit : mm
Weight :6 (g) typ.

Note: Please use plastic screw in case of a non-insulating mounting base!

Components

No.	Part Description	Qty.	Material	Note
1	PCB	1	UL94V-0 (FR-4 or CEM-3)	t=1mm
2	Connector CN1	1	4 Pin solder pad	JST or equal
3	Connector CN2	1	SM02B-BHSS-1-TB	JST or equal

Input side CN1 :

Pin No.	Symbols	Ratings
CN 1-1	Vin	4,5~10 Vdc
CN 1-2	GND	
CN 1-3	Vrmt	0 ~ 1.5 = OFF / 2.5 ~ Vin = ON
CN 1-4	GND	

Output side CN2

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	1000 Vrms (4 mArms)
CN 2-2	Vlow	(GND)

Power Systems – The Power Solution

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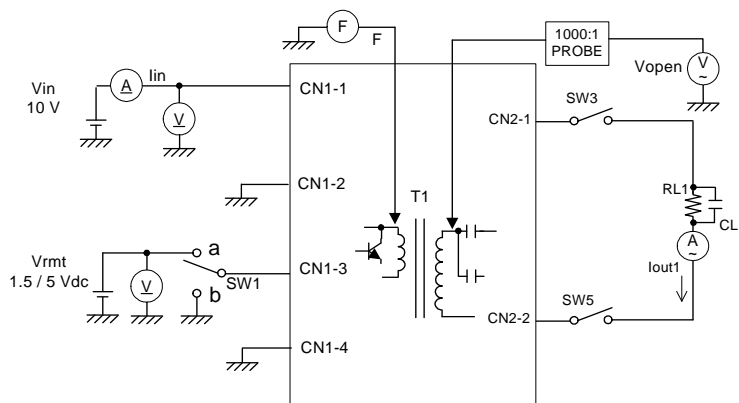
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ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vrmt (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout	4.5~10.0	5±0.25	0 ~ +50	3.5	4.0	4.5	mArms	
Input Current	Iin	4.5~10.0	5±0.25	0 ~ +50	-	-	1.1	A _{dc}	
Frequency	F	4.5~10.0	5±0.25	0 ~ +50	40	52	60	kHz	
Open Circuit Voltage	Vopen	4.5~10.0	5±0.25	0 ~ +50	1.100	1.300	1.600	V _{rms}	
No load Shutdown	Tsd	4.5~10.0	5±0.25	0 ~ +50	-	1.0	-	sec	without load

Note 1 : Please keep minimum of 2mm clearance (all directions) between inverter high voltage area as marked on mechanical drawing and any conductors.

TEST CIRCUIT :


SW1	Operation of unit
a	Operation
b	Non operation

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