

DC-AC INVERTER UNIT

PS-DA0104-01(S) (4 W SINGLE OUTPUTS)

(PRELIMINARY INFORMATION)

DESCRIPTION :

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



APPLICABLE LCD:

- 15 to 17 inches single lamp type
- Lamp Voltage 670 Vrms
- Lamp Current 6.0 mArms
- Lamp Start Up Voltage 1.300 Vrms (Vin : 14 Vdc)

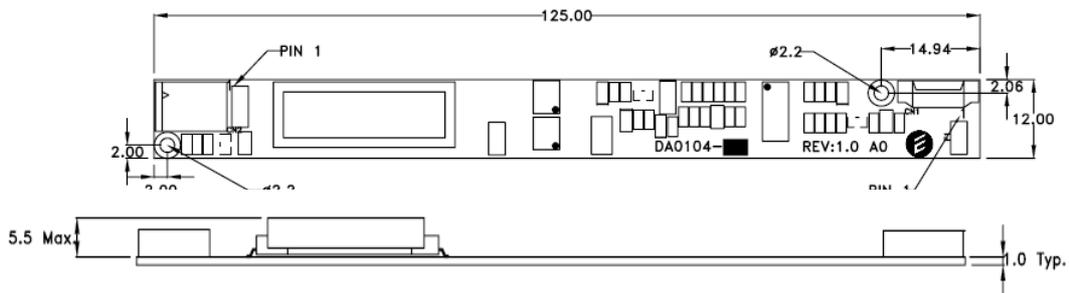
FEATURES :

- Remote ON/OFF
- Dimming Function
- 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 **125 x 12 x 6,5mm**



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

Unit : mm
Weight :40 (g) typ.

Components

No.	Part Description	Qty.	Material	Note
1	PCB	1	UL94V-0 (FR-4 or CEM-3)	t=1mm
2	Connector CN1	1	53261-0590	Molex or equal
3	Connector CN2	1	SM02B-BHSS-TB	JST or equal

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1	Vin	9 ~ 19 Vdc
CN 1-2+5	GND	-
CN 1-3	Vrmt	0 ~ 1.5 = OFF / 2.5 ~ Vin = ON
CN 1-4	Vbr	0 ~ 5.0 Vdc

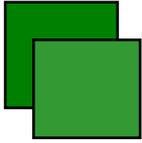
Output side CN2

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	670 Vrms (6.0 mArms)
CN 2-2	Vlow	(GND)

Power Systems – The Power Solution

Web: www.Power-Systems.de
Email: Info@Power-Systems.de

Address: Hauptstr. 48 ; 74360 Ilfeld-Auenstein / Germany
Tel. : + 49 / 70 62 / 67 59 - 6
Fax: + 49 / 70 62 / 67 59 - 800

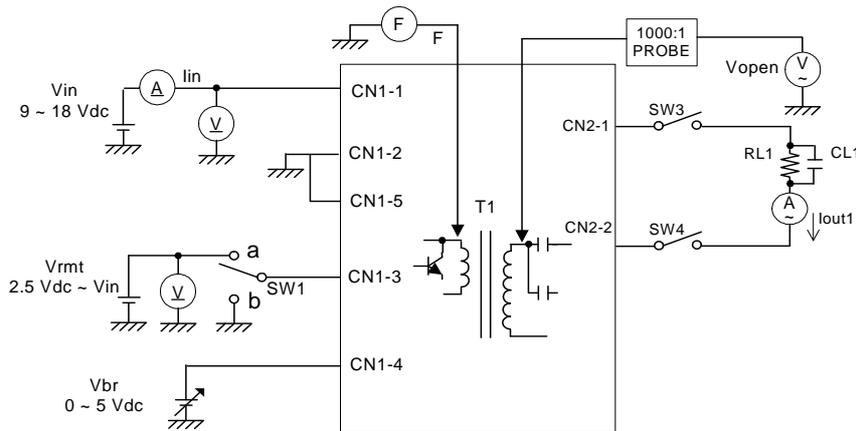


ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vbr (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout	12±1.2	0.0	0 ~ +50	5.4	6.0	6.6	mArms	Duty 100%
Output Current	Iout	12±0.6	5.0	0 ~ +50	-	20	-	%	
Input Current	Iin	12±1.2	0.0	0 ~ +50	-	0.29	0.57	Adc	
Frequency	F	12±1.2	0.0	0 ~ +50	45	50	55	kHz	
Open Circuit Voltage	Vopen	11.4	0.0	0 ~ +50	1.000	1.300	1.800	Vrms	

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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