

DC-AC INVERTER UNIT

PS-DA0404-007(S) (20 W QUAD OUTPUTS)

(PRELIMINARY INFORMATION)

DESCRIPTION :

This low profile DC to AC Inverter is developed for quad lamps.
Optimized for **Sharp: LQ170E1LG11**



APPLICABLE LCD:

- 6.4 to 15 inches quad lamp type
- Lamp Voltage 630 Vrms
- Lamp Current 6 mArms
- Lamp Start Up Voltage 1.700 Vrms (Vin : 12 Vdc)

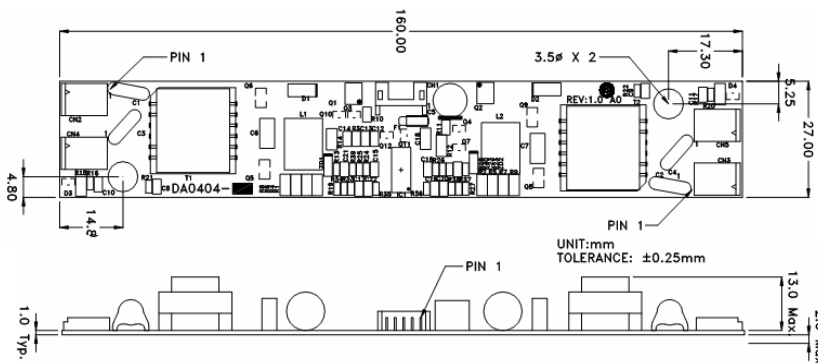
FEATURES :

- 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 160 x 27 x 14 mm



Unit : mm
Weight :38,4 (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	53261-1290	Molex or equal
3	Connector CN2 ~ CN5	4	SM02B-BHSS-TB	JST or equal

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1	Vin	12 Vdc
CN 1-2	GND	
CN 1-3	Vrmt	0 ~ 0.4 = OFF / 4.5 ~ Vin = ON
CN 1-4	Vbr	0 ~ 3.3 Vdc
CN 1-5	N.C.	

Output side CN2 ~ CN5

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	630 Vrms (6 mArms)
CN 2-2	Vlow	(GND)

Power Systems – The Power Solution

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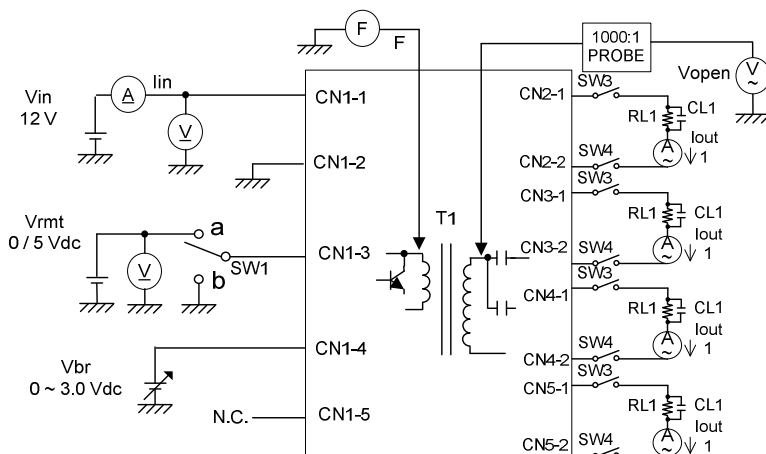
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ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vrmt (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout	12±1.2	5±0.25	0 ~ +50	5.5	6.0	6.5	m Arms	Vbr = 0 Vdc
Output Current	Iout	12±0.6	5±0.25	0 ~ +50	2.0	3.0	3.5	m Arms	Vbr = 3.3 Vdc
Input Current	Iin	12±1.2	5±0.25	0 ~ +50	-	1.6	2.0	A dc	
Frequency	F	12±1.2	5±0.25	0 ~ +50	50	55	65	kHz	
Open Circuit Voltage	Vopen	11.4	5±0.25	0 ~ +50	1.700	-	-	V rms	
No load Shutdown	Tsd	12±1.2	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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