DC-AC INVERTER UNIT

PS-DA0602-01(S) (30 W SIXFOLD OUTPUTS) (PRELIMINARY INFORMATION)

DESCRIPTION :
This low profile DC to AC Inverter is developed for sextuple lamps.

APPLICABLE LCD:

15 to 30 inches sextuple lamp type
Lamp Voltage 769 Vrms
Lamp Current 6 x 6.5 mArms
Lamp Start Up Voltage 1.650 Vrms (Vin : 12 Vdc)

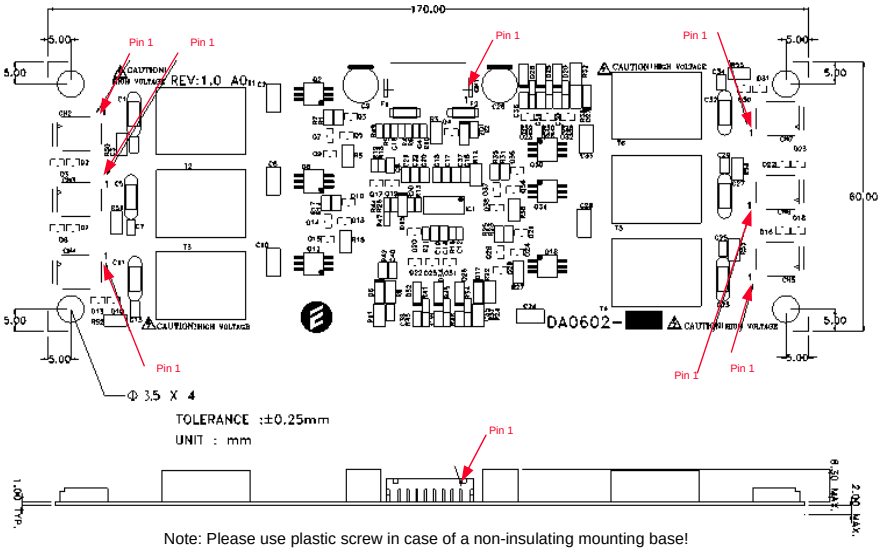
FEATURES :

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 170 x 60 x 9.5 mm



Unit : mm
Weight :64 (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	S8B-PH-SM3-TB	JST or equal
3	Connector CN2 ~ CN7	6	SM02B-BHSS-1-TB	JST or equal

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1+2+3	Vin	12 Vdc
CN 1-4+5+6	GND	
CN 1-7	Vbr	0 ~ 3.3 Vdc
CN 1-8	Vrmt	0 ~ 1.5 = OFF / 2.5 ~ 5.5 = ON

Output side CN2 ~ CN7

Pin No.	Symbols	Ratings
CN 2-1	Vhigh	769 Vrms (6.5 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 Ilsfeld-Auenstein / Germany
Tel. : + 49 / 70 62 / 67 59 - 6
Fax: + 49 / 70 62 / 67 59 - 800

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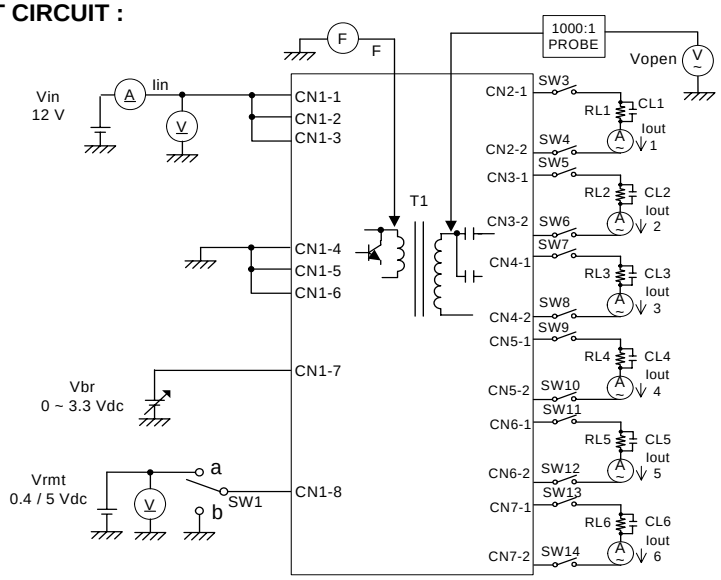
ELECTRICAL CHARACTERISTICS :

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	-	6.5	7.0	mArms	Vin = 12 Vdc Vdim =0 V Duty = 100%
Output Current	Iout	12±0.6	5±0.25	0 ~ +50	-	35	-	%	Vdim = 5.0 V
Input Current	Iin	12±1.2	5±0.25	0 ~ +50	-	2.4	3.4	Adc	
Frequency	F	12±1.2	5±0.25	0 ~ +50	40	50	60	kHz	
Open Circuit Voltage	Vopen	11.4	5±0.25	0 ~ +50	1.500	1.650	1.900	Vrms	
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.

Note 2: Before apply any control signal into inverter, please provide Vcc first. Please follow the reversed sequence during power off. Power off control signal first, then power off Vcc.

TEST CIRCUIT :



SW1	Operation of unit
a	Operation
b	Non operation

Dimming Characteristic: