

DC-AC INVERTER UNIT

PS-DA 0125-016(S) (4 W SINGLE OUTPUTS)

(PRELIMINARY INFORMATION)

DESCRIPTION :

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

Optimized for Kyocera: KCG057QV1DB-G50

APPLICABLE LCD:

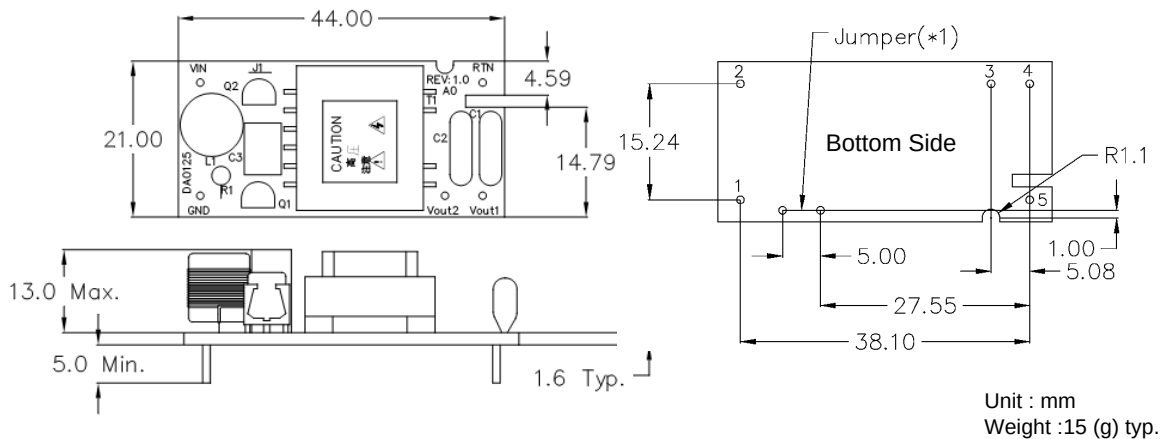
6.4 to 15 inches single lamp type
Lamp Voltage 685 Vrms
Lamp Current 5,4 mArms
Lamp Start Up Voltage 1.650 Vrms (Vin : 5 Vdc)



TEMPERATURE & HUMIDITY :

Operating Temperature Range 0°C ~ +50°C
Storage Temperature Range -20°C ~ +85°C
Humidity 95 %RH max
RoHS compliant (S)

DIMENSIONS : L x W x H **44 x 21 x 13 mm**



Unit : mm
Weight :15 (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	Pin	1	Pin Terminal	
3	Pin	1	Pin Terminal	

Input side

Pin No.	Symbols	Ratings
1	Vin	4.75 ~ 5.25 Vdc
2	GND	

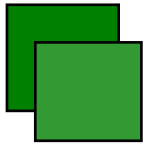
Output side

Pin No.	Symbols	Ratings
3	Vhigh	685 Vrms (5,4 mArms)
4	N.C.	
5	Vlow	(GND)

Power Systems – The Power Solution

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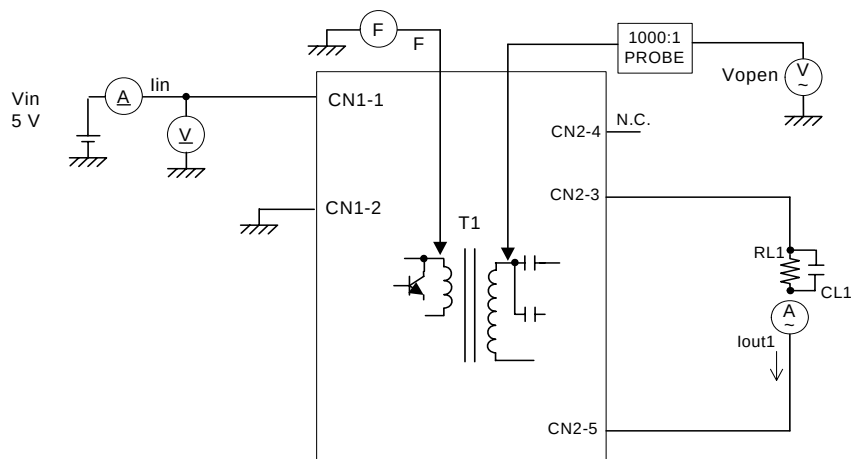
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ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vrmt (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout	5±0.25	5±0.25	0 ~ +50	4.0	5.4	6.0	mA _{rms}	
Input Current	Iin	5±0.25	5±0.25	0 ~ +50	-	0.88	1.14	A _{dc}	
Frequency	F	5±0.25	5±0.25	0 ~ +50	35	40	45	kHz	
Open Circuit Voltage	Vopen	5±0.25	5±0.25	0 ~ +50	1.400	1.650	1.900	V _{rms}	

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 :



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