

DC-AC INVERTER UNIT

PS-M05D12(S) (5 W DUAL OUTPUTS)

(STANDARD)

DESCRIPTION :

This DC/AC Inverter is developed for alternative Backlight Inverter to Endicot E-Series. The Inverter has PCB mounting pins. The nominal input voltage is 12 Vdc regulated.

Please contact us for confirmation regarding compatibility with your display.

APPLICABLE LCD:

Lamp Voltage 500 Vrms
Lamp Current 2 x 5.0 mArms
Lamp Start Up Voltage 1.500 Vrms (Vin : 12 Vdc)

FEATURES :

min. 75% Efficiency
Input Voltage, must be regulated
Ext. PWM (TTL) Dimming Function 250 Hz
RoHS compliant (S)

TEMPERATURE & HUMIDITY :

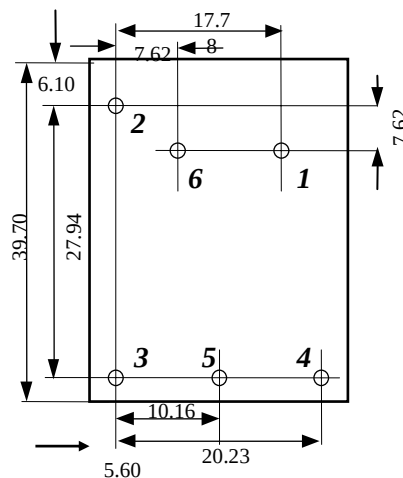
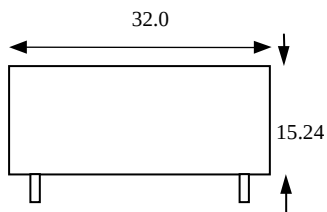
Operating Temperature Range -10°C ~ +60°C
Storage Temperature Range -20°C ~ +85°C
Humidity 95 %RH max

DIMENSIONS :

B x H 32 x 15.24 mm

Bottom View

PCB mounting pins 0.64 square.
Unit : mm
Weight :12 (g) typ



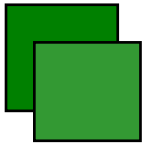
Pin Terminal:

Pin No.	Symbols	Ratings
1	Vin	10.8 ~ 13.2 Vdc
2	GND	-
3	Vlow	(GND)
4	Vhigh1	500 Vrms (5.0 mArms)
5	Vhigh2	500 Vrms (5.0 mArms)
6	Ext. PWM	High Activ (250 Hz)

Power Systems – The Power Solution

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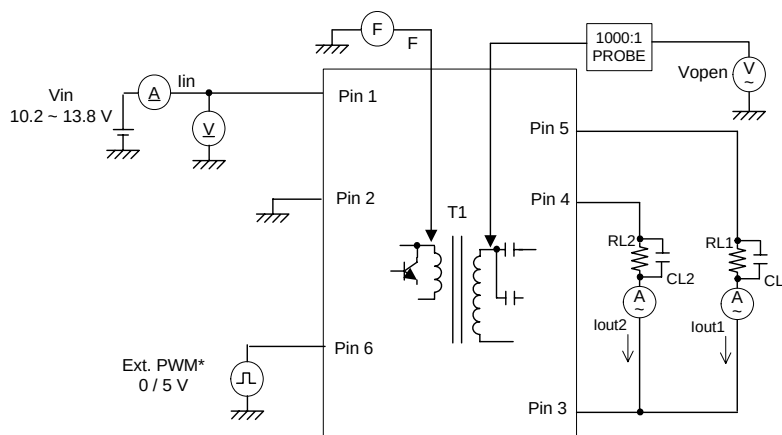
(STANDARD)

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	-10 ~ +60	4.0	5.0	6.0	mArms	Duty 100%
Output Current	Iout	12±0.6	5±0.25	-10 ~ +60	-	10	-	%	PWM - Dimming
Input Current	Iin	12±1.2	5±0.25	-10 ~ +60	-	0.4	-	A _{dc}	
Frequency	F	12±1.2	5±0.25	-10 ~ +60	27	32	37	kHz	
Open Circuit Voltage	Vopen	11.4	5±0.25	-10 ~ +60	-	1.500	-	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.
- Note 2: The external PWM frequency should be in a range of 100 ~ 500 Hz. For other frequency please request. The optimum is normally at 250 Hz, and minimizes the interference disturbances of the vertical sync. frequency.

TEST CIRCUIT :



*) Only active when Vrmt is 0 Vdc or floating

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