

DC-AC INVERTER UNIT

PS-M06D12S5-NJ4L-020(S) (6,5 W DUAL OUTPUTS)

(PRELIMINARY INFORMATION)

DESCRIPTION :

This low profile DC to AC Inverter is developed for dual lamps.
Optimized for the **AUO: B104SN02**.

APPLICABLE LCD:

6.4 to 12 inches double lamp type
Lamp Voltage 540 Vrms
Lamp Current 6 mArms
Lamp Start Up Voltage 1.300 Vrms (Vin : 5 Vdc)



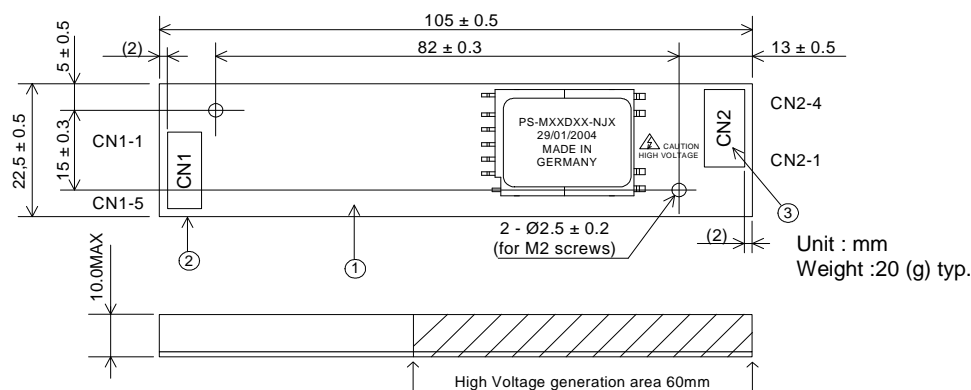
FEATURES :

Remote ON/OFF
RoHS compliant (S)

TEMPERATURE & HUMIDITY :

Operating Temperature Range 0°C ~ +60°C
Storage Temperature Range -20°C ~ +85°C
Humidity 95 %RH max

DIMENSIONS :



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	S5B-PH-SM3	JST or equal
3	Connector CN2	1	SM03(4.0)B-BHS	JST or equal

Input side CN1:

Pin No.	Symbols	Ratings
CN 1-1	Vin	12 Vdc
CN 1-2	GND	
CN 1-3	Ext. PWM	0 / 5 Vdc (H activ)
CN 1-4	N.C.	
CN 1-5	Vrm t	0 / 5 Vdc (H activ)

Output side CN2:

Pin No.	Symbols	Ratings
CN 2-1+2	Vhigh	540 Vrms (6 mArms)
CN 2-3	N.C.	-
CN 2-4	Vlow	0 Vdc

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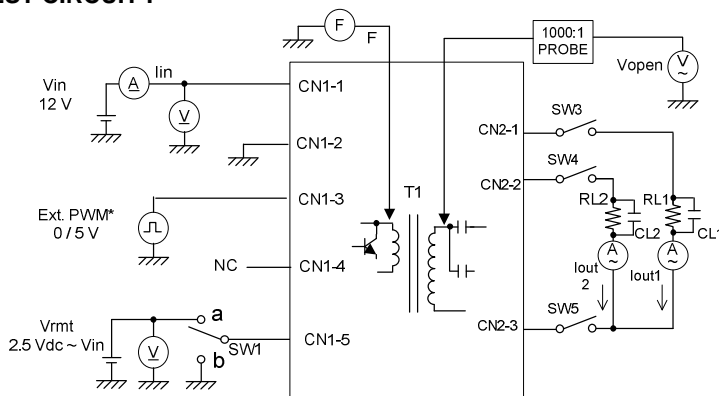
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ELECTRICAL CHARACTERISTICS :

Parameters	Symbols	Conditions			Specification			Unit	Note
		Vin (V)	Vrmt (V)	Tu (°C)	Min.	Typ.	Max.		
Output Current	Iout1+2	5±1.2	5±0.25	0 ~ +60	5.5	6.0	6.5	m Arms	
Output Current	Iout1+2	5±0.6	5±0.25	0 ~ +60	5.0	6.0	7.0	m Arms	
Input Current	Iin	5±1.2	5±0.25	0 ~ +60	-	0.7	1.2	Adc	
Frequency	F	5±1.2	5±0.25	0 ~ +60	TBD	50	TBD	kHz	
Open Circuit Voltage	Vopen	4.7	5±0.25	0 ~ +60	1.200	1.300	-	Vrms	
Dimming Function	Ext PWM	0 / 5	5±0.25	0 ~ +60	5.5	6.0	6.5	m Arms	Duty Circle variable

Note 1 : Please keep minimum of 2mm clearance (all directions) between inverter high voltage area as marked on mechanical drawing and any conductors.

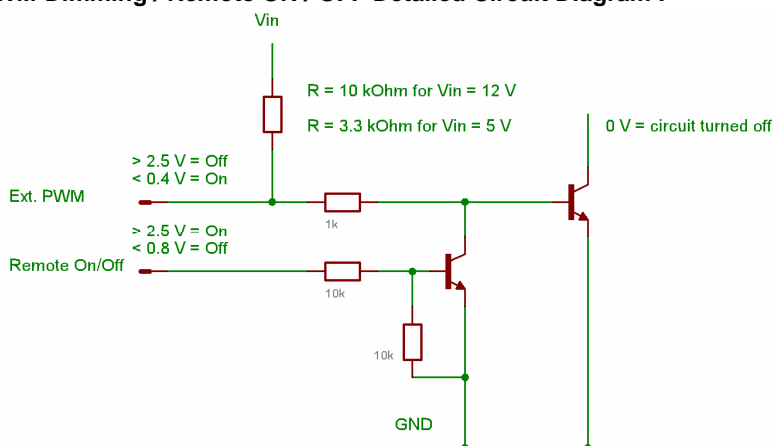
TEST CIRCUIT :



SW 1	Operation of unit
a	Operation
b	Non operation

*) Only active when Vrmt is 0Vdc or floating

External PWM-Dimming / Remote ON / OFF Detailed Circuit Diagram :



Note 2: Remote On/Off has always priority. If you would like to use external PWM-dimming Remote On/Off must be N.C.

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