

DC-AC INVERTER UNIT

PS-M06D12S5-NJ4L-052(S) (6,5 W DUAL OUTPUTS)

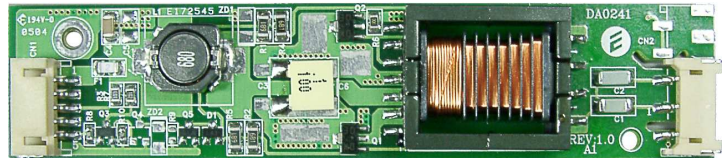
(PRELIMINARY INFORMATION)

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 : 12 Vdc)



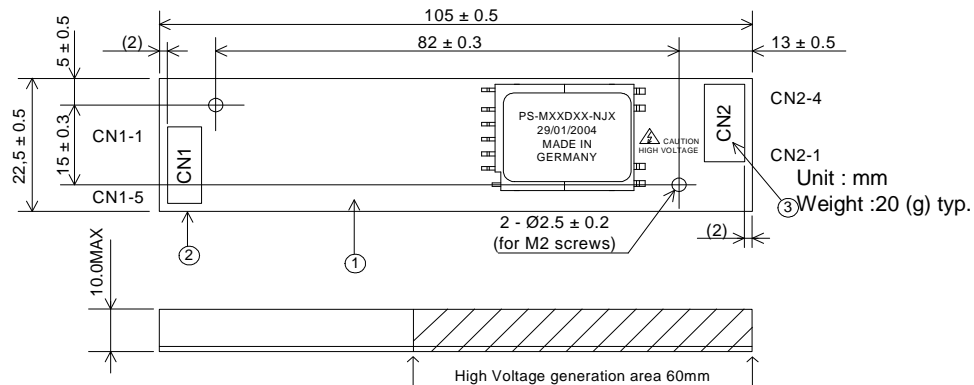
FEATURES :

- 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 : L x W x H **105 x 23 x 10mm**



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 | Vrmt | 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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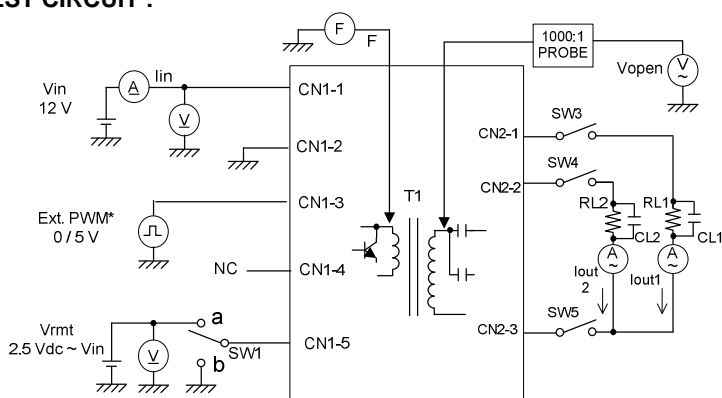
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ELECTRICAL CHARACTERISTICS :

| 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 | mArms | |
| Output Current | Iout1+2 | 5±0.6 | 5±0.25 | 0 ~ +60 | 5.0 | 6.0 | 7.0 | mArms | |
| 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 | mArms | 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.

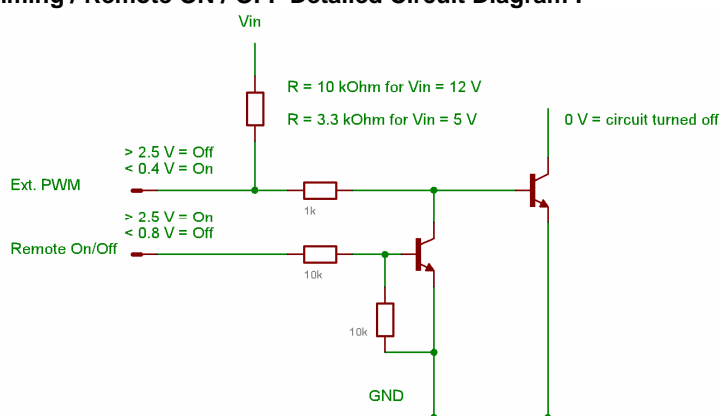
TEST CIRCUIT :



| | |
|------|-------------------|
| 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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