

Temperature increase of main components

Model: MGW1048□□

1. Conditions

- (1) Input :DC 48 [V]
 (2) Output :Rated output
 (3) Cooling method :Convection cooling
 (4) Mounting method :Shown as Fig.1.1

2. Result

Table 2.1 Temperature increase of main components

| No. | Parts name | Symbol No. | Increase (ΔT) | | Rated temp. [°C] | Reference |
|-----|--------------------------|------------|-------------------------|------|------------------|--------------------|
| | | | [deg] | | | |
| | | | ±12V | ±15V | | |
| 1 | Switching MOS-FET | TR11 | 43 | 41 | 150 | Junction Temp. |
| 2 | Power control IC | IC11 | 46 | 41 | 150 | Junction Temp. |
| 3 | Rectified diode (Output) | D201 | 54 | 49 | 150 | Junction Temp. |
| 4 | Photocoupler | PC11 | 46 | 41 | 125 | Junction Temp. |
| 5 | Transformer (PCB) | P2 | 51 | 47 | 130 | |
| 6 | CASE | CASE | 47 | 41 | 105 | Top Surface Center |
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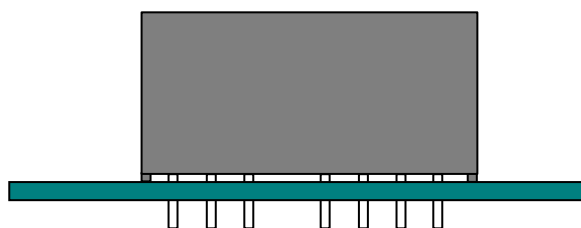


Fig.1.1 Mounting method