

Date : Oct 15,2004

Temperature increase of main components

Model: SUS/SUW1R548

1. Conditions

- (1) Input :DC 36 - 76 [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

| Table 2.1 Temperature increase of main components | | | | | | | | | | |
|---|-------------------------|------------|-------------------------|----|-----|-----|------|------|------------------|----------------|
| No. | Parts name | Symbol No. | Increase (ΔT) | | | | | | Rated temp. [°C] | Reference |
| | | | [deg] | | | | | | | |
| | | | 3.3V | 5V | 12V | 15V | ±12V | ±15V | | |
| 1 | Transformer | T11 | 40 | 51 | 38 | 37 | 42 | 36 | 155 | |
| 2 | Switching Transistor | TR11 | 43 | 46 | 37 | 36 | 40 | 34 | 150 | Junction temp. |
| 3 | Rectified Diode(Output) | D50 | — | — | — | — | 37 | 33 | 150 | Junction temp. |
| 4 | Rectified Diode(Output) | D51 | 41 | 38 | 39 | 37 | — | — | 150 | Junction temp. |
| 5 | Input Choke | L11 | 31 | 30 | 30 | 29 | 32 | 28 | 125 | |
| 6 | Output Choke | L50 | — | — | — | — | 27 | 21 | 125 | |
| 7 | Output Choke | L51 | 26 | 30 | 22 | 21 | — | — | 125 | |
| 8 | Photocoupler | PC11 | 34 | 39 | 31 | 31 | 36 | 30 | 125 | Junction temp. |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
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| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |



(Side view)

Fig.1.1 Mounting method
(Normal position)