

Date : Apr.6,2005

Temperature increase of main components

Model: SUS/SUW648

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 | Switching Transistor | TR11 | 46 | 38 | 36 | 31 | 41 | 37 | 150 | Junction Temp. |
| 2 | Rectified Diode(Output) | D71 | 65 | 51 | 34 | 31 | 42 | 38 | 150 | Junction Temp. |
| 3 | Transformer | T11 | 55 | 51 | 44 | 37 | 52 | 45 | 155 | |
| 4 | Photocoupler | PC11 | 41 | 35 | 30 | 27 | 32 | 32 | 125 | Junction Temp. |
| 5 | Output Capacitor | C71 | 49 | 39 | 27 | 23 | 36 | 32 | 125 | |
| 6 | Transistor | TR21 | 39 | 33 | 31 | 27 | 35 | 34 | 150 | Junction Temp. |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |



(Side view)

Fig.1.1 Mounting method
(Normal position)