

Temperature increase of main components

Model: TUHS25F05,TUHS25F12,TUHS25F15,TUHS25F24

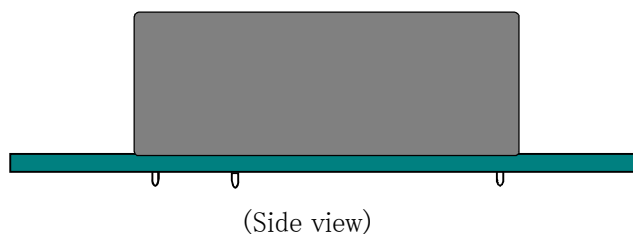
1. Conditions

- (1) Input :AC 85 ~ 264 [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] | | | | | |
| | | | 5V | 12V | 15V | 24V | | |
| 1 | Input Diode | SS101 | 60 | 55 | 63 | 53 | 150 | Junction Temp. |
| 2 | Input Choke Coil | L101 | 57 | 53 | 56 | 48 | 130 | |
| 3 | Switching MOS-FET | TR102 | 70 | 61 | 76 | 55 | 150 | Junction Temp. |
| 4 | Transformer | T101 | 68 | 60 | 80 | 54 | 130 | |
| 5 | Rectified MOS-FET(Output) | TR201 | 72 | 59 | 75 | 50 | 150 | Junction Temp. |
| 6 | Output Choke Coil | L201 | 72 | 59 | 77 | 53 | 125 | |
| 7 | Case | — | 57 | 53 | 64 | 50 | — | |
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Fig.1.1 Mounting method
(Normal position)