

Date : Apr.13,2022

Temperature increase of main components: 主要部品温度上昇

Model: TUNS1200F

1. Conditions

- (1) Input :AC 85 ~ 305 [V]
 (2) Output :Rated output
 (3) Mounting method :As shown in Fig.1.1

2. Result

| No. | Parts name | Symbol No. | Increase (ΔT) | | | | | | Rated temp. [°C] | Reference |
|-----|-------------------------|------------|-------------------------|-----|-----|----|--|--|------------------|----------------|
| | | | [deg] | | | | | | | |
| | | | 12V | 28V | 48V | 65 | | | | |
| 1 | Input Diode | D11 | 24 | 29 | 28 | 27 | | | 150 | Junction Temp. |
| 2 | Choke Coil(Pfc) | L11 | 34 | 44 | 41 | 40 | | | 150 | |
| 3 | Rectified Diode(Pfc) | D21 | 17 | 22 | 20 | 20 | | | 175 | Junction Temp. |
| 4 | Switching Moss-Fet(Pfc) | TR11 | 25 | 25 | 26 | 25 | | | 150 | Junction Temp. |
| 5 | Switching Moss-Fet | TR21 | 21 | 31 | 26 | 29 | | | 150 | Junction Temp. |
| 6 | Transformer | T11 | 26 | 27 | 33 | 36 | | | 130 | |
| 7 | Rectified Diode(Output) | SS51 | 39 | 22 | 16 | – | | | 150 | Junction Temp. |
| 8 | Rectified Diode(Output) | D51 | – | – | – | 11 | | | 150 | Junction Temp. |
| 9 | Choke Coil(Output) | L51 | 5 | 13 | 21 | 8 | | | 155 | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |

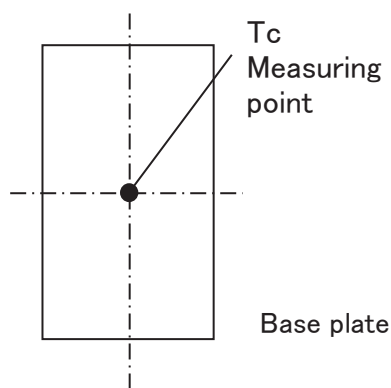


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.

*本資料は参考資料であり、その内容を保証するものではありません。