

Date : Dec.1,2023

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

Model: PDA30F

1. Conditions

- (1) Input :AC 85 ~ 264 [V]
- (2) Output :Rated output *Derating is required at 85~90[VAC] input
- (3) Mounting method :As shown in Fig.1.1

2. Result

| No. | Parts name | Symbol No. | Increase (ΔT) [deg] | | | | | | Rated temp. [°C] | Reference |
|-----|--------------------------|------------|-------------------------------|-----|-----|--|--|--|------------------|----------------|
| | | | 5V | 12V | 24V | | | | | |
| 1 | Line Filter | L101 | 53 | 57 | 56 | | | | 130 | |
| 2 | Rectifier(Input) | SS101 | 52 | 53 | 56 | | | | 150 | Junction Temp. |
| 3 | Input Capacitor | C201 | 21 | 20 | 21 | | | | 105 | |
| 4 | Switching Transistor | TR201 | 65 | 65 | 54 | | | | 150 | Junction Temp. |
| 5 | Transformer | T201 | 44 | 50 | 55 | | | | 130 | |
| 6 | Rectifying Diode(Output) | SS501 | - | 59 | 51 | | | | 150 | Junction Temp. |
| 7 | Transistor (Output) | TR501 | 49 | - | - | | | | 150 | Junction Temp. |
| 8 | Output Choke Coil | L501 | 37 | 38 | 27 | | | | 130 | |
| 9 | Output Capacitor | C501 | 18 | 17 | 17 | | | | 105 | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |

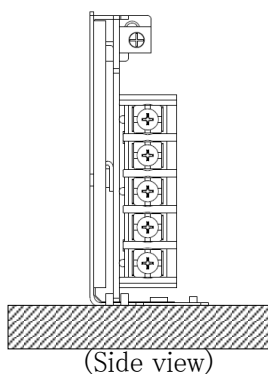


Fig.1.1 Mounting method
(Normal position)