

Date : Sep.10,2014

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

Model: TUNS500F series

1. Conditions

- (1) Input : AC 85 ~ 264 [V]
- (2) Output : Rated output
- (3) Aluminum base plate temp : 75 [°C] (TUNS500F12) (Fig1.1)
- : 85 [°C] (TUNS500F28,48) (Fig1.1)
- (4) Ambient temp : 25 [°C]

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			12	28	48					
1	Input Diode	SS11	17.9	16.8	16.2				150	Junction Temp.
2	Choke Coil(PFC)	L11	27.2	27.9	28.4				155	
3	Rectified Diode(PFC)	D11	19.9	19.9	19.7				175	Junction Temp.
4	Switching Moss-FET(PFC)	TR11	14	13.2	13.5				150	Junction Temp.
5	Switching Moss-FET	TR21	13.4	15.3	14.6				150	Junction Temp.
6	Transformer	T11	24.2	29.5	24.5				155	
7	Rectified Diode(Output)	SS51	51	21.3	—				150	Junction Temp.
8	Rectified Diode(Output)	D51	—	—	24.2				150	Junction Temp.
9	Choke Coil(Output)	L51	8.4	9.8	8				155	
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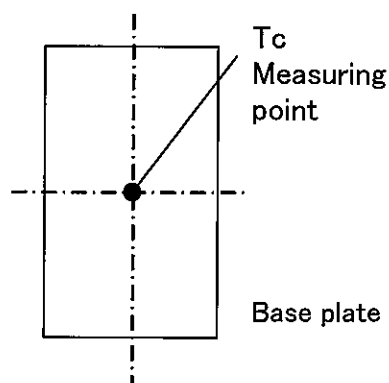


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.