

Date : Apr.12.2012

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

Model: TUNS100F series

1. Conditions

- (1) Input : AC 85 ~ 264 [V]
 (2) Output : Rated output * Derating is required at AC85 - 90[V] input
 (3) Aluminum base plate temp : 85 [°C] (Fig1.1)
 (4) Ambient temp : 25 [°C]

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			05	12	24					
1	Input Diode	SS11	14.1	12.0	12.0				150	Junction Temp.
2	Choke Coil(PFC)	L11	48.1	48.3	47.6				155	
3	Rectified Diode(PFC)	D11	16.3	11.5	11.2				150	Junction Temp.
4	Switching Moss-FET(PFC)	TR12	9.6	7.9	8.6				150	Junction Temp.
5	Power Control IC(PFC)	IC101	9.5	9.5	9.5				150	Junction Temp.
6	Switching Moss-FET	TR21	16.9	17.2	18.9				150	Junction Temp.
7	Transformer	T11	11.0	16.8	16.9				155	
8	Rectified Moss-FET(Output)	TR51	10.2	5.7	8.5				150	Junction Temp.
9	Rectified Moss-FET(Output)	TR61	28.6	23.7	18.9				150	Junction Temp.
10	Choke Coil(Output)	L51	27.7	44.4	44.9				155	
11	Power Control IC	IC201	18.1	18.1	18.1				150	Junction Temp.
12										
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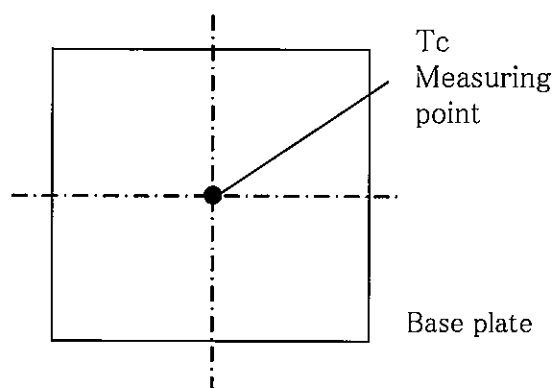


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.