

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 ( $\Delta T$ )					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									
13									
14									
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17									
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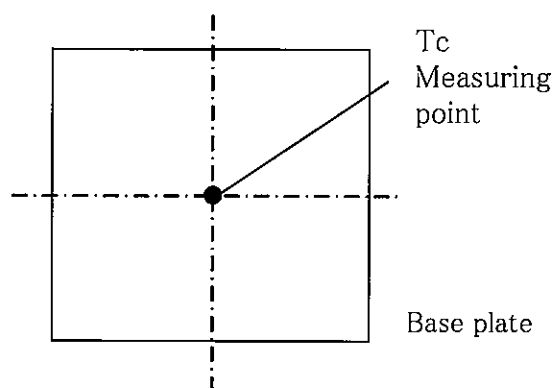


Fig.1.1 Measuring point of aluminum base plate temperature

\* All information presented herein are not guaranteed.