

Date : Apr.5,2012

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

Model: TUNS50F 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	D301	18.2	17.9	18.1				150	Junction Temp.
2	Choke Coil(PFC)	L11	38.3	29.8	25.8				155	
3	Rectified Diode(PFC)	D303	19.1	17.2	18.6				150	Junction Temp.
4	Switching Moss-FET(PFC)	TR301	20.7	17.6	18.9				150	Junction Temp.
5	Power Control IC(PFC)	IC101	17.3	17.3	17.3				150	Junction Temp.
6	Switching Moss-FET	TR401	15.3	12.6	14.5				150	Junction Temp.
7	Transformer	T11	28.3	34.3	36.9				155	
8	Rectified Diode(Output)	SS51	12.6	7.0	5.4				150	Junction Temp.
9	Choke Coil(Output)	L51	7.0	2.8	1.9				120	
10	Power Control IC	IC201	23.0	23.0	23.0				150	Junction Temp.
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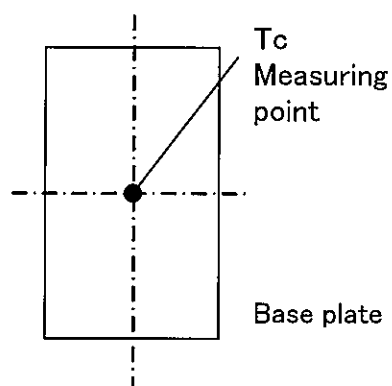


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.