

Date : Sep.10,2014

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

Model: TUNS300F series

1. Conditions

- (1) Input : AC 85 ~ 264 [V]
 (2) Output : Rated output
 (3) Aluminum base plate temp : 100 [°C] (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	13.1	13.5	13.3				150	Junction Temp.
2	Choke Coil(PFC)	L11	20.7	21	22.6				155	
3	Rectified Diode(PFC)	D11	17.9	18.1	18				175	Junction Temp.
4	Switching Moss-FET(PFC)	TR11	6.3	8	8.1				150	Junction Temp.
5	Switching Moss-FET	TR21	9.7	11.2	10.1				150	Junction Temp.
6	Transformer	T11	18.3	24.7	17.9				155	
7	Rectified Diode(Output)	SS51	26.9	11.4	-				150	Junction Temp.
8	Rectified Diode(Output)	D51	-	-	14.6				150	Junction Temp.
9	Choke Coil(Output)	L51	5.2	5.1	4.9				155	
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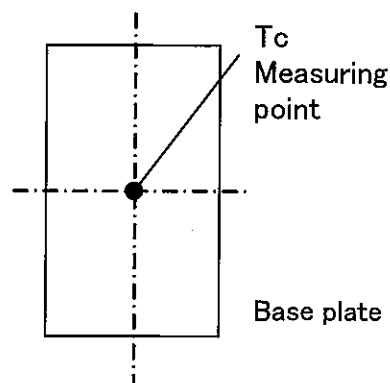


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.