

Date : May.26,2015

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

Model: TUNS700F series

1. Conditions

- (1) Input : AC 85 ~ 264 [V]
- (2) Output : Rated output
- (3) Aluminum base plate temp : 50 [°C] (TUNS700F12) (Fig1.1)
- : 80 [°C] (TUNS700F28,48) (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	23.9	23	22.8				150	Junction Temp.
2	Choke Coil(PFC)	L11	44	49.6	49.9				155	
3	Rectified Diode(PFC)	D11	28.4	27.4	28.5				175	Junction Temp.
4	Switching Moss-FET(PFC)	TR11	33.1	27.9	27.1				150	Junction Temp.
5	Switching Moss-FET	TR21	22.2	18	19.5				150	Junction Temp.
6	Transformer	T11	36.8	45	36.6				155	
7	Rectified Diode(Output)	SS51	72.3	35.3	-				150	Junction Temp.
8	Rectified Diode(Output)	D51	-	-	36.4				150	Junction Temp.
9	Choke Coil(Output)	L51	7	18.5	12.1				155	
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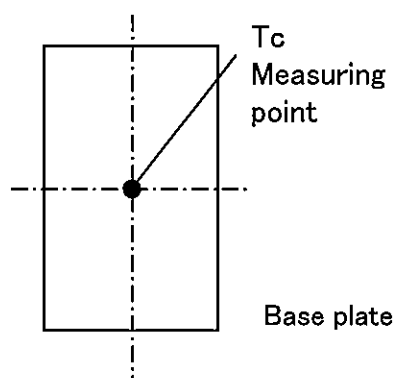


Fig.1.1 Measuring point of aluminum base plate temperature

* All information presented herein are not guaranteed.