

Date : Nov.13,2008

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

Model : DBS100A/150A

1. Conditions

- (1) Input : DC 45 ~ 160 [V] (DBS100A05/13R8)
: DC 66 ~ 160 [V] (DBS150A12/15/24)
- (2) Output : Rated output
- (3) Aluminum base plate temp. : 85 [°C] (Fig1.1)

2. Result

The temperature Increase based on the aluminum base plate is shown below.

No.	Parts name	Symbol No.	Increase (ΔT)					Rated temp. [°C]	Reference
			[deg]						
			5V	13.8V	12V	15V	24V		
1	Swiching trsnsistor	TR11	30	29	31	33	29	150	Junction temp.
2	Transformer	T11	14	17	4	15	13	155	
3	Transformer (coil)	T11	25	30	21	20	26	155	
4	Rectified diode(Output)	SS51	29	11	11	14	10	150	Junction temp.
5	Output choke(coil)	L51	14	16	14	25	19	130	
6	Power control IC	IC101	31	23	12	14	18	150	Junction temp.
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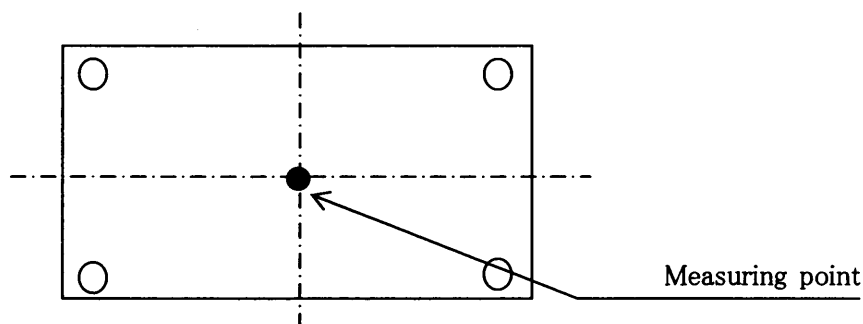


Fig. 1.1 Measuring point of aluminum base plate temperature.