

Date : Feb.29,2000

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

Model : DBS400B

1. Conditions

- (1) Input : DC 200 ~ 400 [V]
(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]							
			3. 3V	5V	7. 5V	12V	18V	28V		
1	Input choke (coil)	L101	8	12	15	12	17	19	120	
2	Switching transistor	TR101	12	13	17	15	20	21	150	Junction temp.
3	Transformer	T101	5	3	2	7	11	10	120	
4	Switching transistor	TR11	24	31	31	33	31	34	150	Junction temp.
5	Transformer (coil)	T11	25	30	31	39	42	39	155	
6	Rectified diode(Output)	SS52	42	41	26	37	14	19	150	Junction temp.
7	Rectified diode(Output)	SS54	35	36	30	28	17	28	150	Junction temp.
8	Output choke (coil)	L51	29	36	17	28	23	34	155	
9	Power control IC	IC101	18	17	19	22	25	32	150	Junction temp.
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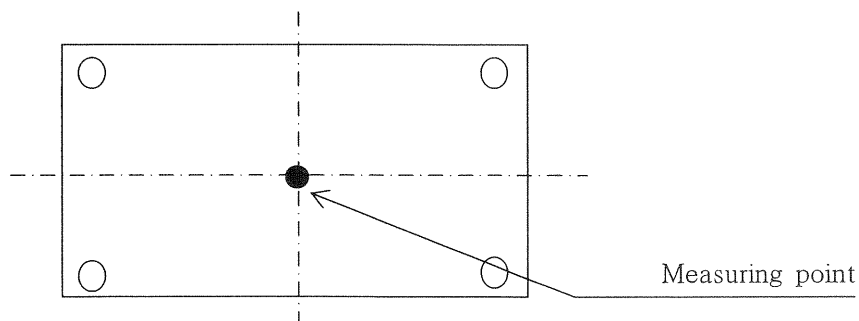


Fig.1.1 Measuring point of aluminum base plate temperature.