

Sep.5,2008

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

Model: CBS45048

### 1. Conditions

(1) Input	:	DC 38 ~ 60 [V]	(CBS4504824)
	:	DC 36 ~ 76 [V]	(CBS4504828 CBS4504832)
(2) Output	:	Rated output	
(3) Aluminum base plate temp.	:	60 [°C]	(Fig1.1)
(4) Ambient temp.	:	25 [°C]	

### 2. Result

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

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )				Rated temp. [°C]	Reference
			[deg]					
			24	28	32			
1	Input choke(coil)	L11	10	11	16		120	
2	Switching transistor	TR11	30	27	22		150	Junction temp.
3	Switching transistor	TR14	30	27	22		150	Junction temp.
4	Rectified diode(Output)	SS51	27	25	19		150	Junction temp.
5	Rectified diode(Output)	SS52	24	23	26		150	Junction temp.
6	Rectified diode(Output)	SS53	25	25	19		150	Junction temp.
7	Transformer(coil)	T11	45	56	53		155	
8	Output choke(coil)	L51	29	42	47		155	
9	Power control IC	IC101	24	25	20		150	Junction temp.
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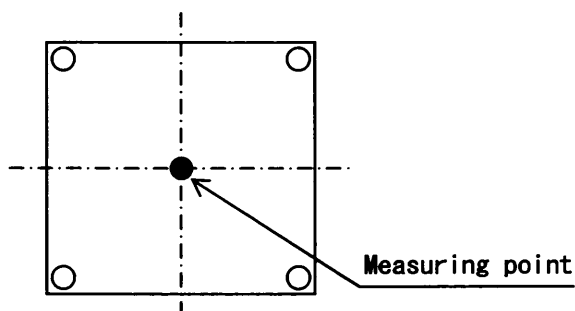


Fig.1.1 Measuring point of aluminum base plate temperature.