

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

Model: CBS35024

1. Conditions

- (1) Input : DC 20 ~ 36 [V]
 (2) Output : Rated output
 (3) Aluminum base plate temp. : 85 [°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 (ΔT)					Rated temp. [°C]	Reference
			[deg]						
			12	24	28	32	48		
1	Input choke(coil)	L11	7	9	11	10	8	120	
2	Switching transistor	TR11	17	20	23	20	17	150	Junction temp.
3	Switching transistor	TR14	15	19	19	19	17	150	Junction temp.
4	Rectified diode(Output)	SS51	22	23	18	15	8	150	Junction temp.
5	Rectified diode(Output)	SS52	23	26	17	16	8	150	Junction temp.
6	Rectified diode(Output)	SS53	23	23	20	18	–	150	Junction temp.
7	Transformer(coil)	T11	31	52	52	35	47	155	
8	Output choke(coil)	L51	19	27	30	33	29	155	
9	Power control IC	IC201	18	20	22	23	20	150	Junction temp.
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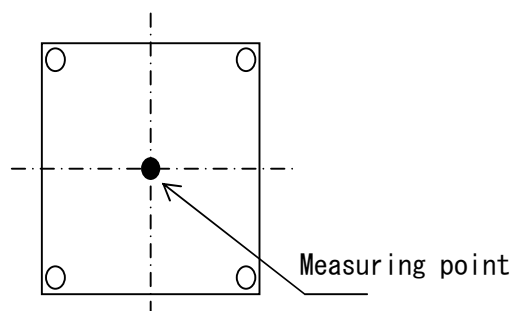


Fig.1.1 Measuring point of aluminum base plate temperature.