

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

Model: CBS35048

1. Conditions

(1) Input	:	DC 38 ~ 60 [V]	(CBS3504848)
		DC 36 ~ 76 [V]	(others)
(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	3	5	4	6	2	120	
2	Switching transistor	TR11	14	17	15	18	15	150	Junction temp.
3	Switching transistor	TR14	14	14	15	20	15	150	Junction temp.
4	Rectified diode(Output)	SS51	29	20	19	18	9	150	Junction temp.
5	Rectified diode(Output)	SS52	30	25	20	19	16	150	Junction temp.
6	Rectified diode(Output)	SS53	28	19	18	17	-	150	Junction temp.
7	Transformer(coil)	T11	31	50	45	50	53	155	
8	Output choke(coil)	L51	28	31	28	37	36	155	
9	Power control IC	IC101	23	24	25	23	24	150	Junction temp.
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