

Date : Mar.28,2025

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

Model: DCS1400B

### 1. Conditions

- (1) Input :DC 200 ~ 435 [V]
- (2) Output :Rated output
- (3) Mounting method :As shown in Fig.1.1

### 2. Result

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			12V	24V	28V	36V	48V	65V		
1	Choke Coil (Input)	L11	11	14	14	13	14	12	155	
2	Switching Transistor (Buck Conv)	TR11	23	25	26	23	19	26	150	Junction Temp.
3	Rectifying Diode (Buck Conv)	D11	12	11	11	10	9	10	175	Junction Temp.
4	Choke Coil (Buck Conv)	L12	30	42	40	35	35	32	150	
5	Switching transistor (DCDC)	TR421	17	24	25	20	20	23	150	Junction Temp.
6	Transformer	T401	23	28	23	23	24	21	130	
7	Synchronous Rectifying Transistor	TR52	9	7	6	1	3	1	150	Junction Temp.
8	Choke Coil (Output)	L501	17	13	10	13	12	8	130	
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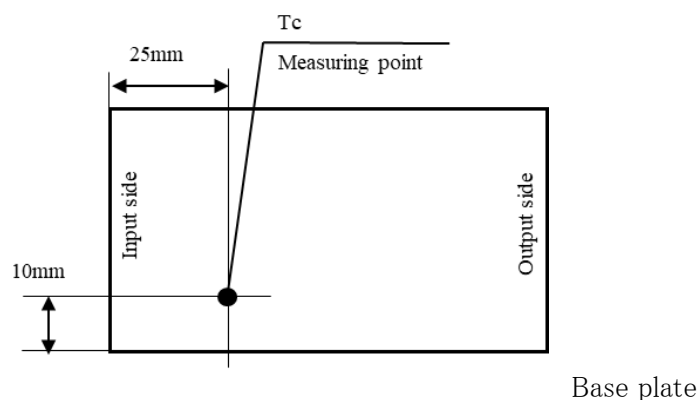


Fig.1.1 Measuring point of aluminum base plate temperature

\* All information presented herein are not guaranteed.

\* 本資料は参考資料であり、その内容を保証するものではありません。