

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

Model: DBS700B

## 1. Conditions

- (1) Input : DC 200~400 [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 ( $\Delta T$ )				Rated temp. [°C]	Reference
			[deg]					
			12	24	28			
1	Switching transistor	TR11	21	20	18		150	Junction temp.
2	Switching transistor	TR13	16	15	14		150	Junction temp.
3	Rectified diode(Output)	SS51	35	32	30		150	Junction temp.
4	Rectified diode(Output)	SS53	37	39	33		150	Junction temp.
5	Transformer(coil)	T11	25	20	20		155	
6	Output choke(coil)	L51	29	28	34		155	
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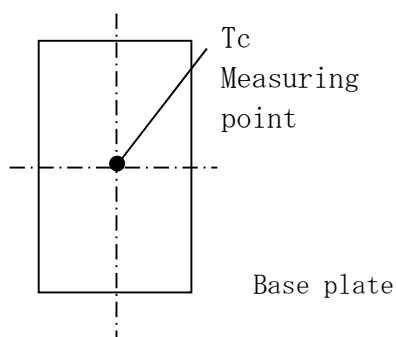


Fig.1.1 Measuring point of aluminum base plate temperature.

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Model: DBS700B

## 1. Conditions

- (1) Input : DC 200~400 [V]  
 (2) Output : Rated output  
 (3) Aluminum base plate temp. : 70 [°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]					
			36	48				
1	Switching transistor	TR11	18	15			150	Junction temp.
2	Switching transistor	TR13	15	12			150	Junction temp.
3	Rectified diode(Output)	SS51	29	23			150	Junction temp.
4	Rectified diode(Output)	SS53	29	22			150	Junction temp.
5	Transformer(coil)	T11	48	28			155	
6	Output choke(coil)	L51	34	27			155	
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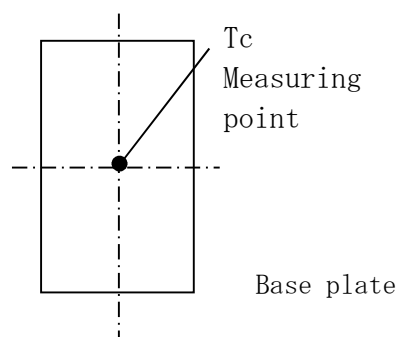


Fig.1.1 Measuring point of aluminum base plate temperature.