

Temperature increase of main components

Model: DHS50A

1. Conditions

- (1) Input : DC 60~160 [V]
 (2) Output : Rated output
 (3) Aluminum base plate temp. : 100 [°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]							
			5	12	15	24				
1	Switching transistor	TR11	8	12	10	8			150	Junction temp.
2	Rectified diode(Output)	SS51	17	9	9	7			150	Junction temp.
3	Rectified diode(Output)	SS52	<div></div>	<div></div>	<div></div>	<div></div>			150	Junction temp.
4	Transformer(coil)	T11	2	7	7	8			155	
5	Output choke(coil)	L51	9	10	8	2			155	※1
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※1 Rated temp. 130°C only DHS50A05

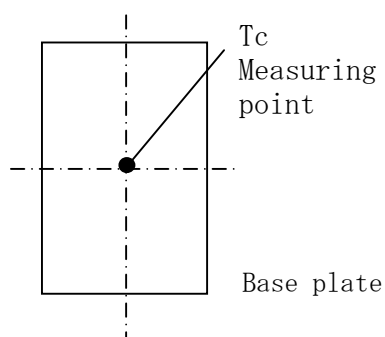


Fig.1.1 Measuring point of aluminum base plate temperature.