

Temperature increase of main components

Model: DHS200A

## 1. Conditions

- (1) Input : DC 60~160 [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]							
			5							
1	Switching transistor	TR21	13						150	Junction temp.
2	Switching transistor	TR31	13						150	Junction temp.
3	Rectified MOS-FET(Output)	TR51	17						155	Junction temp.
4	Rectified MOS-FET(Output)	TR61	21						155	Junction temp.
5	Transformer(coil)	T11	40						155	
6	Output choke(coil)	L51	23						155	
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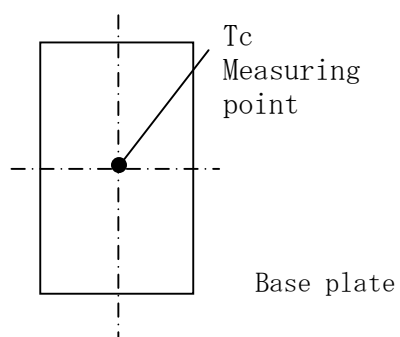


Fig.1.1 Measuring point of aluminum base plate temperature.

Date : Jul.26,2010

### Temperature increase of main components

Model: DHS200A

#### 1. Conditions

- (1) Input : DC 60~160 [V]  
 (2) Output : Rated output  
 (3) Aluminum base plate temp. : 75 [°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	15	24					
1	Switching transistor	TR21	14	15	17				150	Junction temp.
2	Switching transistor	TR31	13	15	16				150	Junction temp.
3	Rectified diode(Output)	SS51	11	17	10				155	Junction temp.
4	Rectified diode(Output)	SS61	25	22	16				155	Junction temp.
5	Transformer(coil)	T11	50	51	52				155	
6	Output choke(coil)	L51	31	17	26				155	
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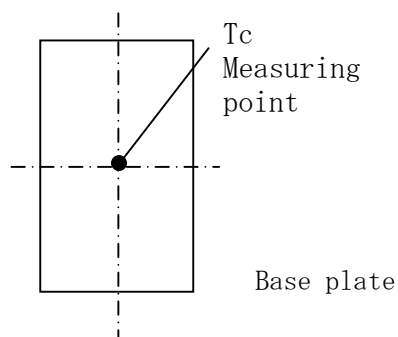


Fig.1.1 Measuring point of aluminum base plate temperature.