

Temperature increase of main components

Model: CQHS300

1. Conditions

- (1) Input :DC 36 - 76 [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.

Table 1.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (ΔT)				Rated temp. [°C]	Reference
			[deg]					
			32V	50V				
1	Switching MOS-FET	TR11	15	19			150	Junction Temp.
2	Switching MOS-FET	TR12	15	19			150	Junction Temp.
3	Transformer	T101	53	60			155	
4	Rectifying MOS-FET	TR51	22	15			150	Junction Temp.
5	Rectifying MOS-FET	TR71	7	4			150	Junction Temp.
6	Rectifying MOS-FET	TR72	7	4			150	Junction Temp.
7	Output choke(coil)	L501	33	29			155	
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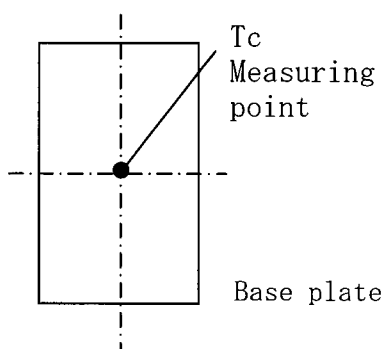


Fig.1.1 Measuring point of aluminum base plate temperature.