

Jan.23,2019

Temperature increase of main components

Model: CHS4004815,CHS4004824,CHS4004828,CHS4004832,CHS4004848

1. Conditions

- (1) Input : DC 48 [V]
- (2) Output : Rated output
- (3) Air flow : 2.0[m/s]
- (4) Measuring method : Shown as Fig1.1

2. Result

Table 2.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (ΔT) [°C]					Rated temp. [°C]	Reference
			15V	24V	28V	32V	48V		
1	Switching MOS-FET	TR104	115	120	125	110	120	150	Junction temp.
2	Switching MOS-FET	TR102	110	115	120	105	115	150	Junction temp.
3	Rectifying MOS-FET	TR501	125	130	150	120	135	150	Junction temp.
4	Rectifying MOS-FET	TR503	125	130	150	120	135	150	Junction temp.
5	Transformer	T101	110	105	115	90	100	130	
6	Power control IC	IC431	100	95	110	95	95	150	Junction temp.
7	Power control IC	IC710	100	95	110	95	95	150	Junction temp.

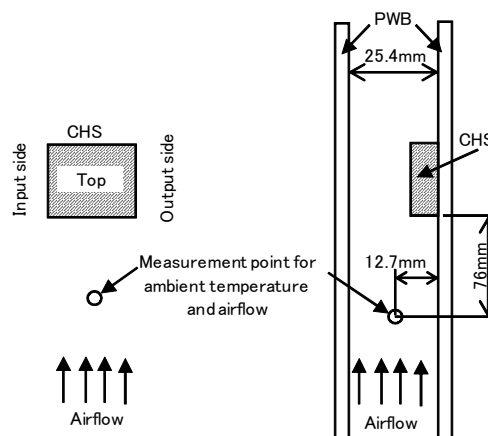


Fig1.1 Measuring method