

Sep. 19, 2019

Temperature increase of main components

Model: CHS3004815, CHS3004824, CHS3004828, CHS3004832, CHS3004848

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	TR101	94	80	105	83	83	150	Junction temp.
2	Switching MOS-FET	TR102	96	82	107	85	85	150	Junction temp.
3	Rectifying MOS-FET	TR501	120	80	125	95	100	150	Junction temp.
4	Rectifying MOS-FET	TR502	115	75	120	90	95	150	Junction temp.
5	Transformer	T101	117	92	128	98	107	130	
6	Power control IC	IC203	94	63	101	72	73	150	Junction temp.
7	Power control IC	IC401	84	61	88	65	65	150	Junction temp.

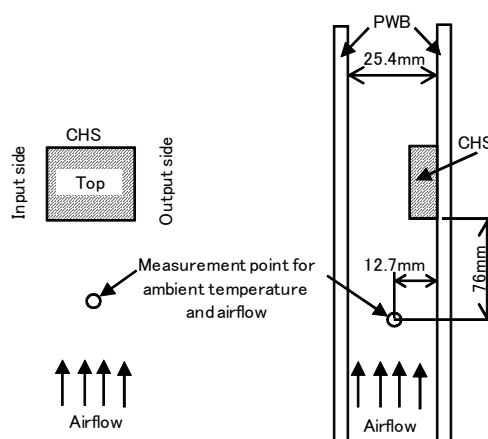


Fig1.1 Measuring method