

Jun.10,2013

Temperature increase of main components

Model: CHS3004810,CHS3004812,CHS3004812H

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)			Rated temp. [°C]	Reference
			[°C]				
			4810	4812	4812H		
1	Swiching MOS-FET	TR101	86	82	51	150	Junction temp.
2	Swiching MOS-FET	TR102	88	80	54	150	Junction temp.
3	Transformer	T101	77	79	46	150	
4	Rectifying MOS-FET	TR511	98	95	69	150	Junction temp.
5	Rectifying MOS-FET	TR521	87	87	62	150	Junction temp.
6	Power control IC	IC431	77	68	48	150	Junction temp.
7	Power control IC	IC710	62	59	43	150	Junction temp.
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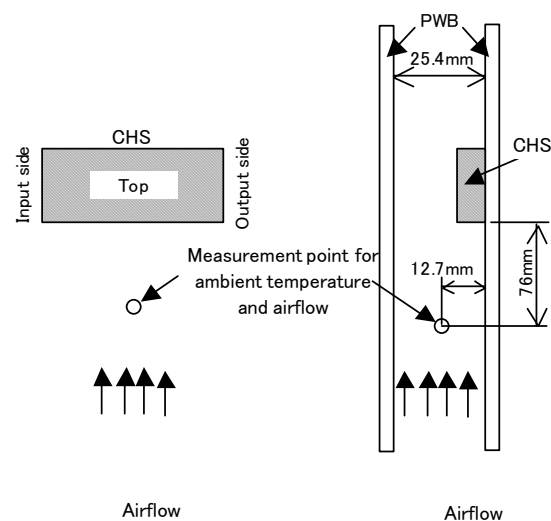


Fig1.1 Measuring method