

Jan. 7, 2017

## Temperature increase of main components

Model: CHS3804810, CHS3804812, CHS3804812H

### 1. Conditions

- (1) Input : DC 48 [V]
- (2) Output : Rated output
- (3) Air flow : 4.0[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 ( $\Delta T$ )			Rated temp. $^{\circ}\text{C}$	Reference
			$^{\circ}\text{C}$				
			4810	4812	4812H		
1	Switching MOS-FET	TR103	69	63	56	150	Junction temp.
2	Switching MOS-FET	TR104	61	53	38	150	Junction temp.
3	Rectifying MOS-FET	TR501	105	74	71	150	Junction temp.
4	Rectifying MOS-FET	TR503	94	69	68	150	Junction temp.
5	Transformer	T101	44	39	34	130	Printed circuit board
6	Power control IC	IC301	37	34	29	150	Junction temp.
7	Power control IC	IC401	45	41	37	150	Junction temp.
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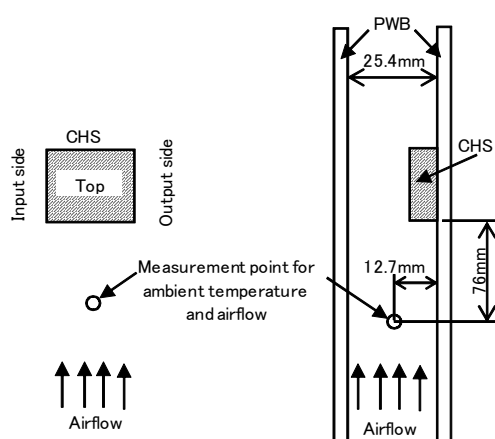


Fig1.1 Measuring method