

Mar.5,2019

Temperature increase of main components

Model: CHS120483R3,CHS1204805,CHS1204812
CHS1204815,CHS1204824

1. Conditions

- (1) Input : DC 48 [V]
- (2) Output : Rated output
- (3) Air flow : 1.0[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
			483R3	4805	4812	4815	4824		
1	Switching MOS-FET	TR101	50	63	60	74	68	150	Junction temp.
2	Switching MOS-FET	TR102	50	63	60	73	73	150	Junction temp.
3	Rectifying MOS-FET	TR511	49	58	54	70	53	150	Junction temp.
4	Rectifying MOS-FET	TR521	44	55	51	76	59	150	Junction temp.
5	Transformer	T101	50	63	60	69	68	130	Printed circuit board
6	Input Choke Coil	L101	39	51	48	63	59	125	
7	Power control IC	IC301	42	53	50	64	66	150	Junction temp.
8	Power control IC	IC401	42	49	45	62	55	150	Junction temp.
9									
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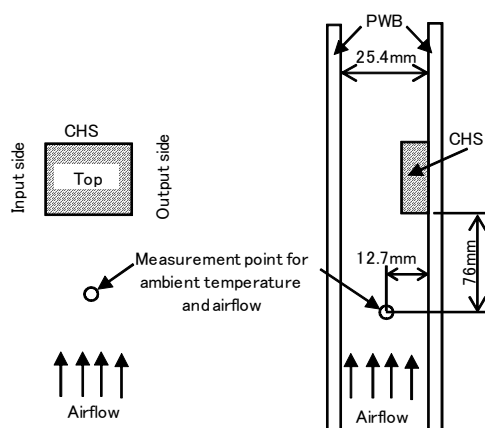


Fig1.1 Measuring method