

Mar.5,2019

Temperature increase of main components

Model: CHS1202405,CHS1202412,CHS1202415,CHS1202424

1. Conditions

- (1) Input : DC 24 [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 ( $\Delta T$ ) [°C]				Rated temp. [°C]	Reference
			2405	2412	2415	2424		
1	Switching MOS-FET	TR101	73	93	92	75	150	Junction temp.
2	Switching MOS-FET	TR102	73	95	95	76	150	Junction temp.
3	Rectifying MOS-FET	TR511	60	76	70	51	150	Junction temp.
4	Rectifying MOS-FET	TR521	63	74	83	58	150	Junction temp.
5	Transformer	T101	60	84	76	64	130	Printed circuit board
6	Input Choke Coil	L101	63	75	81	62	150	
7	Power control IC	IC301	59	86	80	66	150	Junction temp.
8	Power control IC	IC401	51	72	67	53	150	Junction temp.
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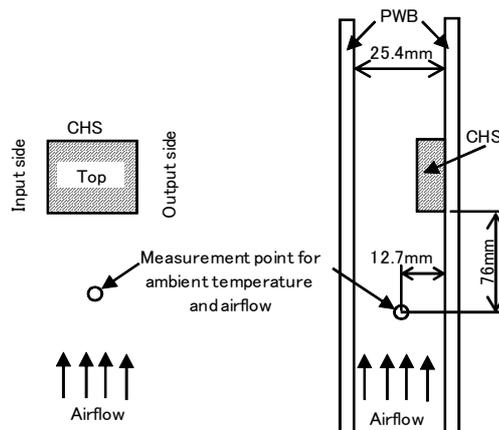


Fig1.1 Measuring method