

Temperature increase of main components

Model: CHS4002412,CHS4002415,CHS4002424  
CHS4002428,CHS4002432,CHS4002448

1. Conditions

- (1) Input : DC 24 [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 ( $\Delta T$ )						Rated temp. [°C]	Reference
			[°C]							
			12V	15V	24V	28V	32V	48V		
1	Swiching MOS-FET	TR104	99	114	98	113	104	72	150	Junction temp.
2	Swiching MOS-FET	TR102	98	111	96	110	102	76	150	Junction temp.
3	Rectifying MOS-FET	TR501	89	99	100	137	109	78	150	Junction temp.
4	Rectifying MOS-FET	TR503	88	100	100	140	110	80	150	Junction temp.
5	Transformer	T101	62	84	79	89	80	52	130	
6	Power control IC	IC431	78	92	78	96	85	61	150	Junction temp.
7	Power control IC	IC710	63	69	71	98	76	55	150	Junction temp.
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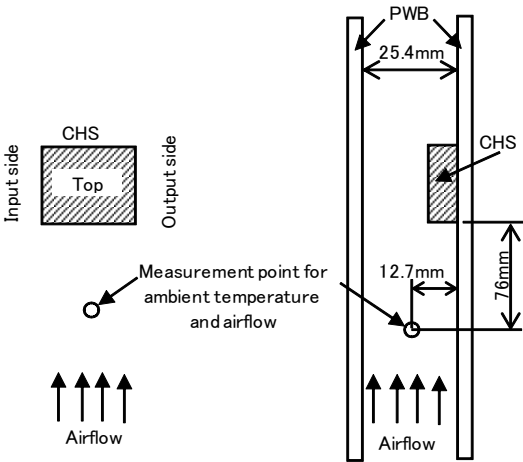


Fig1.1 Measuring method