

Temperature increase of main components

Model: CQS48015-50, CQS48018-50, CQS48025-45
CQS48033-45, CQS48050-28, CQS48120-14, CQS48150-8

1. Conditions

- (1) Input : DC 48 [V]
 (2) Output : Rated output
 (3) Air flow : 1[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
			1.5V	1.8V	2.5V	3.3V	5.0V	12V	15V		
1	Switching MOS-FET	TR103	57	71	58	69	73	94	52	150	Junction temp.
2	Sub Choke Coil	L151	34	56	50	56	60	74	37	125	
3	Rectifying MOS-FET	TR502	76	81	65	74	80	90	55	150	Junction temp.
4	Rectifying MOS-FET	TR505	73	89	63	67	78	98	55	150	Junction temp.
5	Power control IC	IC201	44	59	52	59	64	74	37	150	Junction temp.
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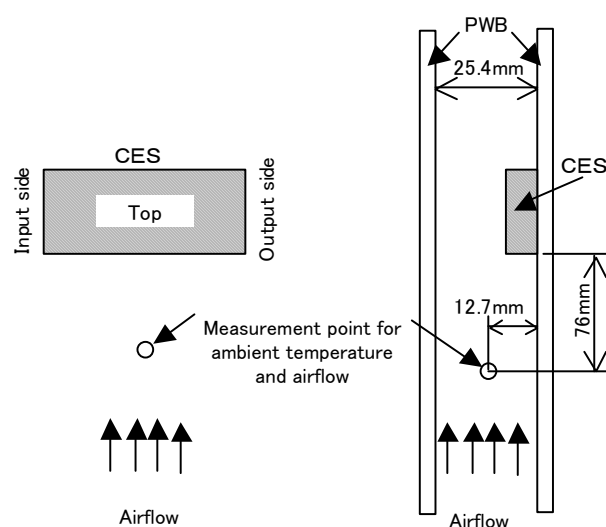


Fig1.1 Measuring method