

Temperature increase of main components

Model: CES48015-30, CES48018-30, CES48025-25
CES48033-25, CES48050-16, CES48120-6, CES48150-4

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)							Rated temp. [°C]	Reference
			[°C]								
			1.5V	1.8V	2.5V	3.3V	5.0V	12V	15V		
1	Switching MOS-FET	TR103	46	43	48	56	52	70	45	150	Junction temp.
2	Input Choke Coil	L101	27	26	27	38	44	41	30	125	
3	Sub Choke Coil	L151	37	36	35	41	42	45	33	125	
4	Rectifying MOS-FET	TR502	65	60	46	54	49	62	41	150	Junction temp.
5	Rectifying MOS-FET	TR505	60	66	46	54	47	57	40	150	Junction temp.
6	Power control IC	IC201	38	45	44	46	47	40	30	150	Junction temp.
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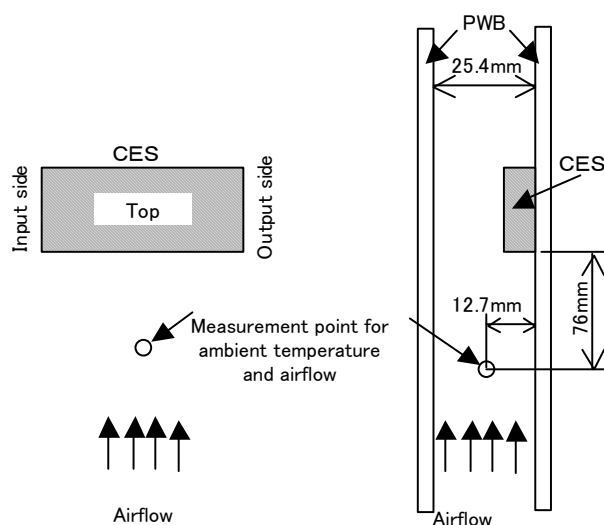


Fig1.1 Measuring method