

Temperature increase of main components

Model: BRFS100

1. Conditions

- (1) Input :DC 12 [V]
 (2) Output :Rated output
 (3) Air flow : 1 [m/s]
 (4) Mounting method :Shown as Fig.1.1

2. Result

Table 2.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			100							
1	High side FET	TR121	82.8						150	Junction Temp.
2	Low side FET	TR122	84.3						150	Junction Temp.
3	High side FET	TR131	82.8						150	Junction Temp.
4	Low side FET	TR132	84.3						150	Junction Temp.
5	Driver IC	IC121	79.3						150	Junction Temp.
6	Power control IC	IC301	75.5						125	Junction Temp.
7	Output choke(coil)	L141	88.0						130	
8	Output choke(coil)	L151	88.0						130	
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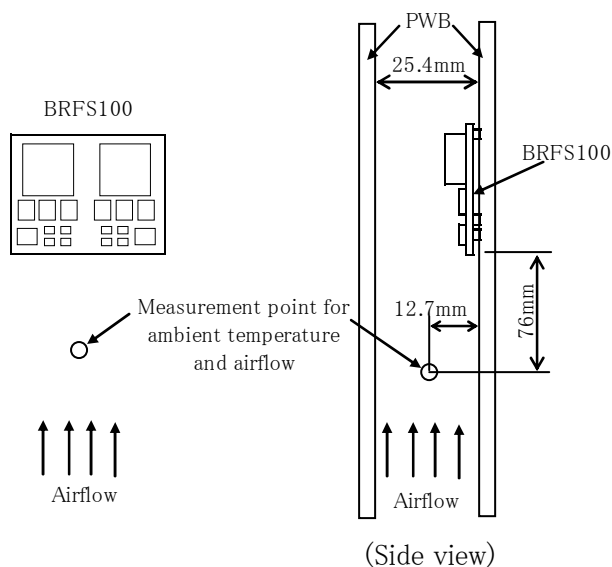


Fig.1.1 Mounting method