

Temperature increase of main components

Model: BRDS100

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 ( $\Delta T$ )					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		
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

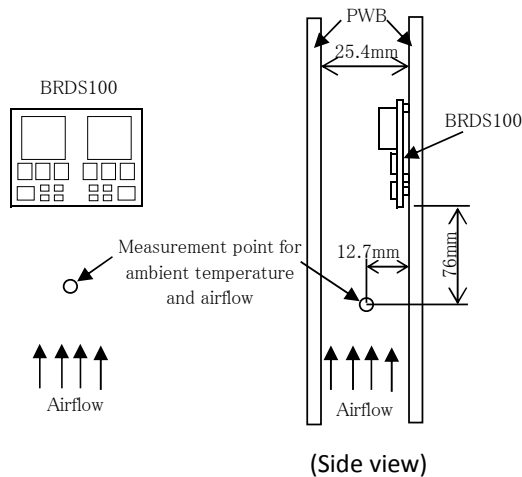


Fig.1.1 Mounting method