

Temperature increase of main components

Model: BRFS50L

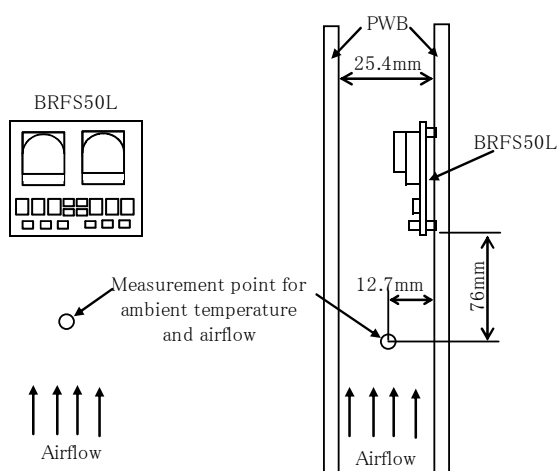
## 1. Conditions

- (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]							
			50A							
1	High Side Fet	TR121	63.4						150	Junction Temp.
2	Low Side Fet	TR122	66.1						150	Junction Temp.
3	High Side Fet	TR131	63.4						150	Junction Temp.
4	Low Side Fet	TR132	66.1						150	Junction Temp.
5	Driver Ic	IC101	59.5						150	Junction Temp.
6	Power Control Ic	IC301	58.5						125	Junction Temp.
7	Output Choke(Coil)	L141	66.0						130	
8	Output Choke(Coil)	L151	66.0						130	
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(Side view)

Fig.1.1 Mounting method