

Date : Jan.31,2017

Temperature increase of main components

Model: MGFS1048□□

1. Conditions

- (1) Input :DC 48 [V]
- (2) Output :Rated output
- (3) Cooling method :Convection cooling
- (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]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	47	45	47	43	150	Junction Temp.
2	Switching MOS-FET	TR101	51	50	51	48	150	Junction Temp.
3	Power control IC	IC201	53	52	53	48	150	Junction Temp.
4	Rectified MOS-FET(Output)	TR201	56	53	56	52	150	Junction Temp.
5	Photocoupler	PC11	47	45	46	43	125	Junction Temp.
6	Transformer (PCB)	P2	52	46	53	49	130	
7	CASE	CASE	48	46	47	43	105	Top Surface Center
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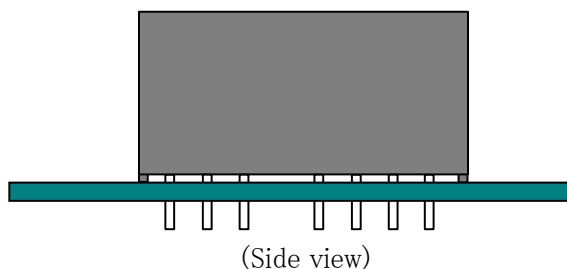


Fig.1.1 Mounting method
(Normal position)