

Temperature increase of main components

Model: MGS1R548□□

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 ( $\Delta T$ )				Rate d temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	15	18	17	17	150	Junction Temp.
2	Switching MOS-FET	TR101	15	15	17	16	150	Junction Temp.
3	Power control IC	IC11	16	16	17	17	150	Junction Temp.
4	Rectified diode (Output)	D201	19	18	22	22	150	Junction Temp.
5	Rectified diode (Output)	D202	19	19	-	-	150	Junction Temp.
6	Photocoupler	PC11	14	16	12	16	125	Junction Temp.
7	Transformer (PCB)	P2	15	18	13	18	130	
8	CASE	CASE	14	14	16	16	110	Top Surface Center
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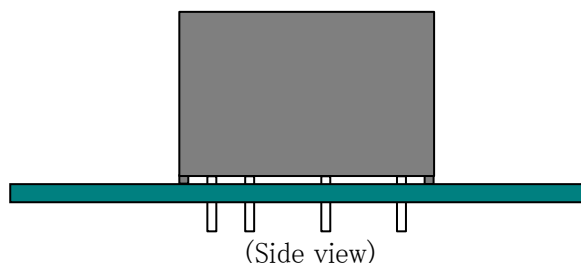


Fig.1.1 Mounting method (Normal position)