

Temperature increase of main components

Model: MGS1R512□□

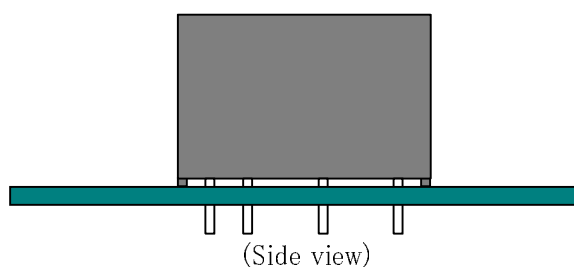
1. Conditions

- (1) Input :DC 12 [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

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No.	Parts name	Symbol No.	Increase (ΔT)				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	15	15	13	13	150	Junction Temp.
2	Switching MOS-FET	TR101	14	14	12	12	150	Junction Temp.
3	Power control IC	IC11	15	15	13	13	150	Junction Temp.
4	Rectified diode (Output)	D201	21	20	15	16	150	Junction Temp.
5	Photocoupler	PC11	14	14	11	12	125	Junction Temp.
6	Transformer (PCB)	P2	14	14	12	11	130	
7	CASE	CASE	13	13	11	11	110	Top Surface Center
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Fig.1.1 Mounting method
(Normal position)