

Temperature increase of main components

Model: MGS312□□

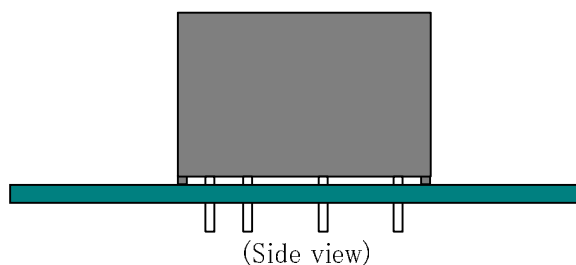
1. Conditions

- (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

No.	Parts name	Symbol No.	Increase (ΔT)				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	26	26	21	21	150	Junction Temp.
2	Switching MOS-FET	TR101	26	25	23	24	150	Junction Temp.
3	Power control IC	IC11	26	26	20	21	150	Junction Temp.
4	Rectified diode (Output)	D201	34	31	24	25	150	Junction Temp.
5	Rectified diode (Output)	D202	37	34	25	26	150	Junction Temp.
6	Photocoupler	PC11	25	24	18	19	125	Junction Temp.
7	Transformer (PCB)	P2	29	28	22	22	130	
8	CASE	CASE	25	24	18	20	110	Top Surface Center
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11								
12								
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Fig.1.1 Mounting method
(Normal position)