

Temperature increase of main components

Model: MGS1512□□

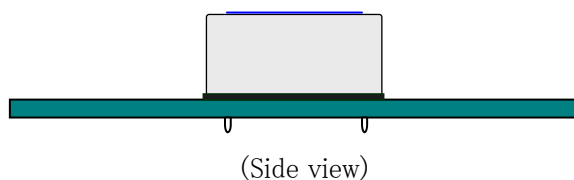
1. Conditions

- (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	Transformer	T101	63	62	55	45	155	
2	Switching MOS-FET	TR101	55	57	55	44	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR202	58	57	52	42	150	Junction Temp.
4	Output Choke Coil	L201	52	50	46	39	125	
5	Bipolar Transistor	TR113	55	54	51	44	150	Junction Temp.
6	Case	—	48	47	43	36	—	
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Fig.1.1 Mounting method
(Normal position)