

Temperature increase of main components

Model: MGS1548□□

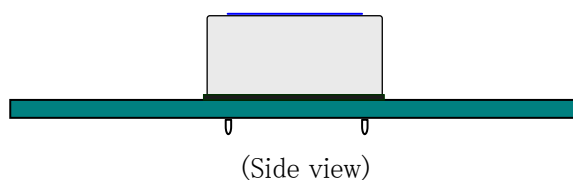
1. Conditions

- (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

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No.	Parts name	Symbol No.	Increase (ΔT)				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Transformer	T101	62	57	55	54	155	
2	Switching MOS-FET	TR101	57	55	51	49	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR202	59	51	47	45	150	Junction Temp.
4	Output Choke Coil	L201	54	47	44	42	125	
5	Bipolar Transistor	TR113	57	52	48	47	150	Junction Temp.
6	Case	—	50	44	42	39	—	
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Fig.1.1 Mounting method
(Normal position)