

Temperature increase of main components

Model: MGFS3048□□

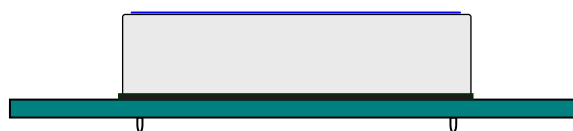
1. Conditions

- (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	48	52	58	54	150	
2	Switching MOS-FET	TR101	48	51	60	60	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR211	51	53	57	53	150	Junction Temp.
4	Rectified MOS-FET(Output)	TR221	54	56	60	56	150	Junction Temp.
5	Output Choke Coil	L201	52	55	59	58	150	
6	MOS-FET	TR222	48	51	55	51	150	Junction Temp.
7	Case	—	42	44	50	48	—	
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(Side view)

Fig.1.1 Mounting method
(Normal position)