

Temperature increase of main components

Model: MGS3048□□

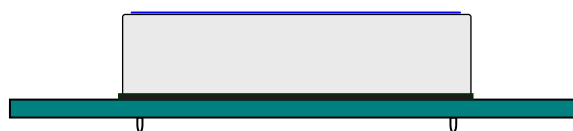
## 1. Conditions

- (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 ( $\Delta T$ )				Rated temp. [°C]	Reference
			[deg]					
			3.3V	5V	12V	15V		
1	Transformer	T101	–	41	–	42	150	
2	Switching MOS-FET	TR101	–	41	–	45	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR211	–	41	–	39	150	Junction Temp.
4	Rectified MOS-FET(Output)	TR221	–	42	–	39	150	Junction Temp.
5	Output Choke Coil	L201	–	41	–	40	150	
6	MOS-FET	TR222	–	39	–	38	150	Junction Temp.
7	Case	–	–	35	–	35	–	
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(Side view)

Fig.1.1 Mounting method  
(Normal position)