

Temperature increase of main components

Model: MGS3012□□

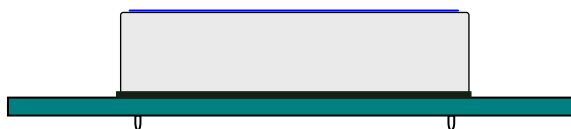
1. Conditions

- (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	Transformer	T101	-	45	-	50	150	
2	Switching MOS-FET	TR101	-	45	-	51	150	Junction Temp.
3	Rectified MOS-FET(Output)	TR211	-	46	-	48	150	Junction Temp.
4	Rectified MOS-FET(Output)	TR221	-	45	-	47	150	Junction Temp.
5	Output Choke Coil	L201	-	45	-	49	150	
6	MOS-FET	TR222	-	42	-	48	150	Junction Temp.
7	Case	-	-	38	-	41	-	
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(Side view)

Fig.1.1 Mounting method
(Normal position)