

Temperature increase of main components

Model: MGFS1R524□□

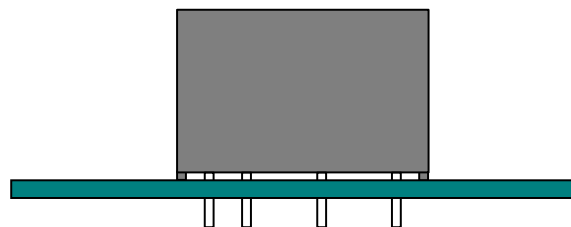
1. Conditions

- (1) Input :DC 24 [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	Switching MOS-FET	TR11	15	16	14	14	150	Junction Temp.
2	Switching MOS-FET	TR101	17	18	16	15	150	Junction Temp.
3	Power control IC	IC12	16	17	15	14	150	Junction Temp.
4	Rectified diode (Output)	D201	19	18	16	15	150	Junction Temp.
5	Rectified diode (Output)	D202	19	19	-	-	150	Junction Temp.
6	Photocoupler	PC11	15	16	14	13	125	Junction Temp.
7	Transformer (PCB)	P2	17	17	16	15	130	
8	CASE	CASE	16	16	15	14	110	Top Surface Center
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10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



(Side view)

Fig.1.1 Mounting method
(Normal position)