COSEL

Date : Aug.25,2016

Temperature increase of main components

Model: MGS348□□

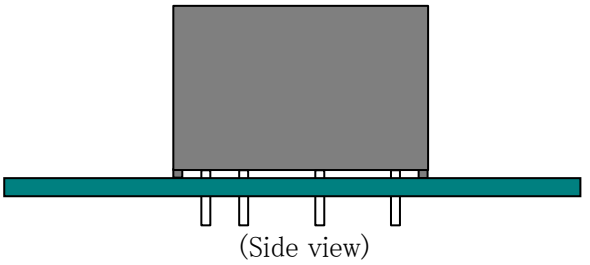
1. Conditions

(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

No.	Parts name	Symbol No.	Increase (△T) [deg]				Rated temp. [℃]	Reference
			3.3V	5V	12V	15V		
1	Switching MOS-FET	TR11	30	28	25	19	150	Junction Temp.
2	Switching MOS-FET	TR101	29	29	25	17	150	Junction Temp.
3	Power control IC	IC11	30	28	25	21	150	Junction Temp.
4	Rectified diode (Output)	D201	42	37	31	25	150	Junction Temp.
5	Rectified diode (Output)	D202	39	34	-	23	150	Junction Temp.
6	Photocoupler	PC11	29	27	24	17	125	Junction Temp.
7	Transformer (PCB)	P2	33	30	26	21	130	
8	CASE	CASE	29	27	23	17	110	Top Surface Center
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								



(Side view)

Fig.1.1 Mounting method
(Normal position)