

Temperature increase of main components

Model: MHFW348□□

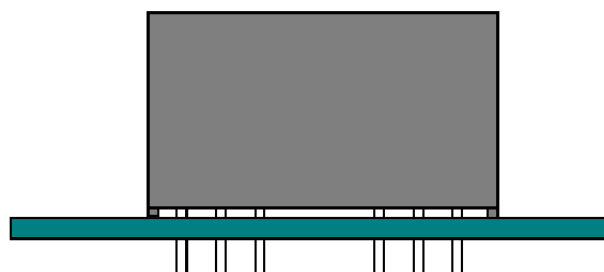
1. Conditions

- (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 (ΔT)					Rated temp. [°C]	Reference
			[deg]						
			$\pm 12V$	$\pm 15V$	-	-	-		
1	Switching MOS-FET	TR101	32	30	-	-	-	150	Junction Temp.
2	Switching MOS-FET	TR111	32	30	-	-	-	150	Junction Temp.
3	Input Choke Coil	L101	30	28	-	-	-	125	
4	Rectified diode(Output)	D201	32	30	-	-	-	150	Junction Temp.
5	Rectified diode(Output)	D202	33	31	-	-	-	150	Junction Temp.
6	Transformer	T11	35	32	-	-	-	120	
7	Photocoupler	PC11	29	26	-	-	-	125	Junction Temp.
8	Case	CASE	31	29	-	-	-	105	Top Surface Center
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(Side view)

Fig.1.1 Mounting method
(Normal position)