

Temperature increase of main components

Model: SUCS/SUCW1048

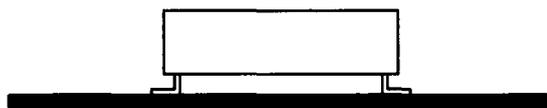
1. Conditions

- (1) Input :DC 36 - 76 [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 ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg.]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Switching Transistor	TR31	51	54	59	58	49	51	150	Junction Temp.
2	Transformer	T11	52	51	51	47	43	46	155	
3	Rectifying MOS-FET	TR51	51	49	-	-	-	-	150	Junction Temp.
4	Rectifying Diode	D52	48	48	49	53	35	38	150	Junction Temp.
5	Photocoupler	PC11	43	43	43	44	33	36	125	Junction Temp.
6	Input Choke Coil	L11	41	40	41	40	36	36	130	
7	Output Choke Coil	L51	46	43	33	33	28	31	120	
8	Output Capacitor	C51	46	44	37	37	31	34	125	
9	Power Control IC	IC11	47	47	48	47	42	43	150	
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20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)