

Date : Mar.25,2005

Temperature increase of main components

Model: SUCS/SUCW1024

1. Conditions

- (1) Input :DC 18 - 36 [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	$\pm 12V$	$\pm 15V$		
1	Switching Transistor	TR31	47	45	54	53	47	44	150	Junction Temp.
2	Transformer	T11	52	49	51	55	47	45	155	
3	Rectifying MOS-FET	TR51	51	48	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	49	50	54	54	36	36	150	Junction Temp.
5	Photocoupler	PC11	43	43	49	49	37	36	125	Junction Temp.
6	Input Choke Coil	L11	40	36	37	36	33	32	130	
7	Output Choke Coil	L51	46	41	36	33	29	29	120	
8	Output Capacitor	C51	46	42	40	38	32	31	125	
9	Power Control IC	IC11	46	41	43	41	40	39	150	
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11										
12										
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15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)