

Date : Mar.25,2005

Temperature increase of main components

Model: SUS/SUW1024

## 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

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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	45	42	54	51	48	44	150	Junction Temp.
2	Transformer	T11	60	57	61	63	56	53	155	
3	Rectifying MOS-FET	TR51	51	47	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	48	49	51	51	38	38	150	Junction Temp.
5	Photocoupler	PC11	38	36	44	42	33	32	125	Junction Temp.
6	Input Choke Coil	L11	37	32	34	32	31	30	130	
7	Output Choke Coil	L51	44	39	33	29	27	26	120	
8	Output Capacitor	C51	47	43	40	37	34	32	125	
9	Power Control IC	IC11	47	41	44	42	41	40	150	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)