

Date : Mar.25,2005

Temperature increase of main components

Model: SUS/SUW1012

1. Conditions

- (1) Input :DC 9 - 18 [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 (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Switching Transistor	TR31	36	35	39	40	33	36	150	Junction Temp.
2	Transformer	T11	53	44	55	52	42	43	155	
3	Rectifying MOS-FET	TR51	49	45	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	47	45	46	50	37	33	150	Junction Temp.
5	Photocoupler	PC11	31	31	32	35	25	27	125	Junction Temp.
6	Input Choke Coil	L11	29	28	31	32	25	25	120	
7	Output Choke Coil	L51	40	36	27	27	26	24	120	
8	Output Capacitor	C51	42	38	35	35	33	29	125	
9	Power Control IC	IC11	33	31	32	33	29	28	150	
10	Current Transformer	T12	24	24	26	26	22	23	155	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)