

Temperature increase of main components

Model: SUCS/SUCW1012

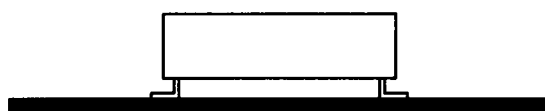
1. Conditions

- (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

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	38	37	43	41	35	36	150	Junction Temp.
2	Transformer	T11	48	40	53	46	40	39	155	
3	Rectifying MOS-FET	TR51	49	45	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	48	47	50	52	37	33	150	Junction Temp.
5	Photocoupler	PC11	36	35	38	40	31	30	125	Junction Temp.
6	Input Choke Coil	L11	30	30	34	33	29	27	120	
7	Output Choke Coil	L51	41	37	31	30	29	27	120	
8	Output Capacitor	C51	41	38	35	35	33	29	125	
9	Power Control IC	IC11	32	31	34	32	29	27	150	
10	Current Transformer	T12	28	28	31	30	27	27	155	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)