

Temperature increase of main components

Model: SUCS/SUCW1R524

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

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	±12V	±15V		
1	Transformer	T11	28	37	25	26	36	25	155	
2	Switching Transistor	TR11	23	30	20	25	30	23	150	Junction temp.
3	Rectified Diode(Output)	D50	–	–	–	–	35	28	150	Junction temp.
4	Rectified Diode(Output)	D51	35	36	35	34	–	–	150	Junction temp.
5	Input Choke	L11	24	31	24	26	31	25	125	
6	Output Choke	L50	–	–	–	–	25	19	125	
7	Output Choke	L51	22	28	18	20	–	–	125	
8	Photocoupler	PC11	27	35	27	28	33	27	125	Junction temp.
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)