

Temperature increase of main components

Model: SUS/SUW312

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	Transformer	T11	34	45	45	49	49	50	155	
2	Switching Transistor	TR11	26	33	36	38	36	39	150	Junction temp.
3	Rectified Diode(Output)	D51	38	41	46	45	-	-	150	Junction temp.
4	Rectified Diode(Output)	D52	-	-	-	-	43	35	150	Junction temp.
5	Input Choke	L11	20	25	29	34	29	31	130	
6	Output Choke	L51	22	24	26	26	-	-	130	
7	Output Choke	L52	-	-	-	-	33	30	125	
8	Photocoupler	PC11	29	33	38	40	36	40	125	Junction temp.
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(Side view)

Fig.1.1 Mounting method
(Normal position)