

Temperature increase of main components

Model: SUCS/SUCW324

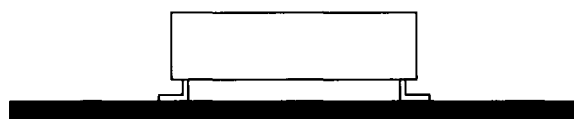
1. Conditions

- (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 (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	$\pm 12V$	$\pm 15V$		
1	Transformer	T11	34	39	40	37	40	40	155	
2	Switching Transistor	TR11	36	42	40	35	37	37	150	Junction temp.
3	Rectified Diode(Output)	D51	39	45	46	42	-	-	150	Junction temp.
4	Rectified Diode(Output)	D52	-	-	-	-	44	41	150	Junction temp.
5	Input Choke	L11	28	35	35	32	31	35	130	
6	Output Choke	L51	26	30	29	28	-	-	130	
7	Output Choke	L52	-	-	-	-	34	31	125	
8	Photocoupler	PC11	38	44	45	42	42	45	125	Junction temp.
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18										
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(Side view)

Fig.1.1 Mounting method
(Normal position)