

Temperature increase of main components

Model: SUT□312□□

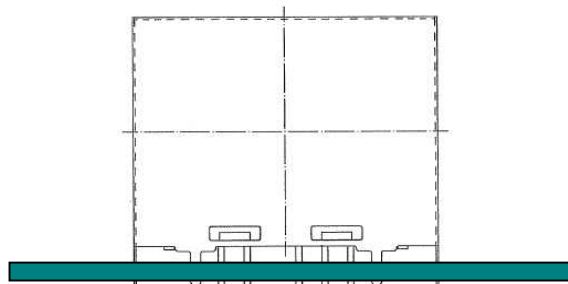
1. Conditions

- (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	28	37	37	40	43	36	155	
2	Switching Transistor	TR11	30	39	36	39	37	39	150	Junction Temp.
3	Rectified diode(Output)	D51	37	48	44	44	-	-	150	Junction Temp.
4	Rectified Diode(Output)	D52	-	-	-	-	48	45	150	Junction Temp.
5	Input Choke	L11	26	36	32	36	32	33	150	
6	Output Choke	L51	30	38	33	34	-	-	150	
7	Output Choke	L52	-	-	-	-	37	37	125	
8	Photocoupler	PC11	31	38	40	45	38	41	125	Junction Temp.
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(Front view)

Fig.1.1 Mounting method
(Normal position)