

Temperature increase of main components

Model: SUCS/SUCW1012

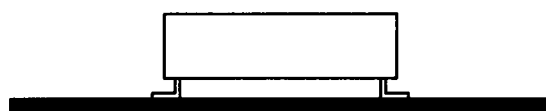
## 1. Conditions

- (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 ( $\Delta T$ )						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	
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12										
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18										
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20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)