

Temperature increase of main components

Model: SUT□1048□□

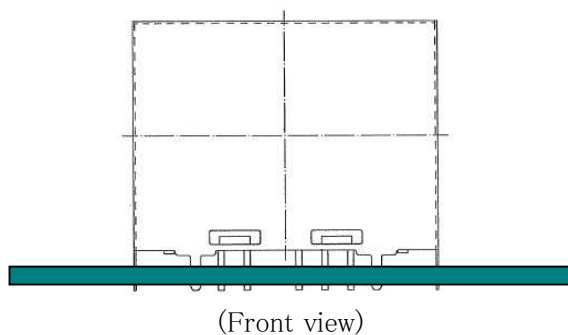
## 1. Conditions

- (1) Input :DC 36 - 76 [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	±12V	±15V		
1	Switching Transistor	TR31	70	77	76	80	70	73	150	Junction Temp.
2	Transformer	T11	66	69	62	67	57	59	155	
3	Rectifying MOS-FET	TR51	72	71	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	69	71	70	72	55	55	150	Junction Temp.
5	Photocoupler	PC11	59	62	58	62	51	54	125	Junction Temp.
6	Input Choke Coil	L11	65	70	65	63	61	63	150	
7	Output Choke Coil	L51	69	68	54	56	51	50	130	
8	Output Capacitor	C51	66	66	56	59	52	53	125	
9	Power Control Ic	IC11	65	67	66	66	58	61	150	
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Fig.1.1 Mounting method  
(Normal position)