

Temperature increase of main components

Model: SUS/SUW1048

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

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No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Switching Transistor	TR31	50	53	57	58	49	52	150	Junction Temp.
2	Transformer	T11	63	62	56	59	49	54	155	
3	Rectifying MOS-FET	TR51	51	49	—	—	—	—	150	Junction Temp.
4	Rectifying Diode	D52	46	48	47	54	35	39	150	Junction Temp.
5	Photocoupler	PC11	37	38	38	41	29	32	125	Junction Temp.
6	Input Choke Coil	L11	38	39	38	39	34	35	130	
7	Output Choke Coil	L51	45	43	30	32	25	28	120	
8	Output Capacitor	C51	47	45	36	39	31	34	125	
9	Power Control IC	IC11	48	49	48	50	43	46	150	
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20										



(Side view)

Fig.1.1 Mounting method
(Normal position)