

Date : Oct 15,2004

Temperature increase of main components

Model: SUS/SUW1R505

1. Conditions

- (1) Input :DC 4.5 - 9 [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	±12V	±15V		
1	Transformer	T11	47	50	35	33	48	43	155	
2	Switching Transistor	TR11	45	56	40	38	49	40	150	Junction temp.
3	Rectified Diode(Output)	D50	-	-	-	-	39	35	150	Junction temp.
4	Rectified Diode(Output)	D51	47	44	38	35	-	-	150	Junction temp.
5	Input Choke	L11	41	48	29	30	43	38	125	
6	Output Choke	L50	-	-	-	-	28	26	125	
7	Output Choke	L51	32	32	20	16	-	-	125	
8	Photocoupler	PC11	36	36	27	30	35	32	125	Junction temp.
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11										
12										
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14										
15										
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20										



(Side view)

Fig.1.1 Mounting method
(Normal position)