

Date : Oct 15,2004

Temperature increase of main components

Model: SUS/SUW1R548

## 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 ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			3.3V	5V	12V	15V	±12V	±15V		
1	Transformer	T11	40	51	38	37	42	36	155	
2	Switching Transistor	TR11	43	46	37	36	40	34	150	Junction temp.
3	Rectified Diode(Output)	D50	-	-	-	-	37	33	150	Junction temp.
4	Rectified Diode(Output)	D51	41	38	39	37	-	-	150	Junction temp.
5	Input Choke	L11	31	30	30	29	32	28	125	
6	Output Choke	L50	-	-	-	-	27	21	125	
7	Output Choke	L51	26	30	22	21	-	-	125	
8	Photocoupler	PC11	34	39	31	31	36	30	125	Junction temp.
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15										
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17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)