

Date : Oct 15,2004

Temperature increase of main components

Model: SUS/SUW1R512

## 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

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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	39	40	29	29	48	27	155	
2	Switching Transistor	TR11	28	28	21	24	46	26	150	Junction temp.
3	Rectified Diode(Output)	D50	-	-	-	-	39	29	150	Junction temp.
4	Rectified Diode(Output)	D51	42	38	34	30	-	-	150	Junction temp.
5	Input Choke	L11	30	29	24	27	43	31	125	
6	Output Choke	L50	-	-	-	-	28	22	125	
7	Output Choke	L51	33	30	18	16	-	-	125	
8	Photocoupler	PC11	34	32	24	27	35	32	125	Junction temp.
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11										
12										
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14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method  
(Normal position)