

Date : Mar 28,2005

Temperature increase of main components

Model: SFS3024 series

1. Conditions

- (1) Input : DC18-36V
- (2) Output : Rated output
- (3) Mounting method : Shown as Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )								Rated temp. [°C]	Reference
			[deg]									
			1.2V	1.5V	1.8V	2.5V	3.3V	5V	12V			
1	Input choke coil	L101	21	23	20	30	30	28	31	125		
2	Switching MOS-FET	TR101	27	31	29	36	45	41	41	150	Junction Temp.	
3	Power control IC	IC101	25	27	26	30	36	33	33	150	Junction Temp.	
4	Transformer (PWB)	T101	33	34	31	37	45	40	39	130		
5	Rectifying MOS-FET	TR501	35	39	33	38	46	40	36	150	Junction Temp.	
6	Rectifying MOS-FET	TR502	35	37	30	36	47	40	36	150	Junction Temp.	
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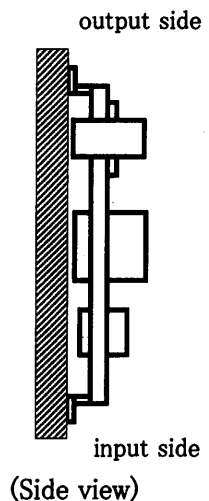


Fig.1.1 Mounting method

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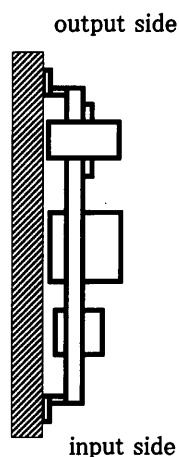
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- (1) Input : DC18-36V
- (2) Output : Rated output
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2. Result

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			15V							
1	Input choke coil	L101	39						125	
2	Switching MOS-FET	TR101	41						150	Junction Temp.
3	Power control IC	IC101	32						150	Junction Temp.
4	Transformer (PWB)	T101	41						130	
5	Rectifying MOS-FET	TR501	39						150	Junction Temp.
6	Rectifying MOS-FET	TR502	39						150	Junction Temp.
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(Side view)

Fig.1.1 Mounting method