

Date : Aug.17,2004

Temperature increase of main components

Model: SFS1548series

## 1. Conditions

- (1) Input : DC36-76V  
 (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	2V	2.5V	3.3V		
1	Switching MOS-FET	TR101	24	28	31	31	32	38	150	Junction Temp.
2	Power control IC	IC101	23	26	24	24	23	22	150	Junction Temp.
3	Transformer (PWB)	T101	24	26	26	26	27	30	130	
4	Rectifying MOS-FET	TR501	24	29	30	28	32	38	150	Junction Temp.
5	Rectifying MOS-FET	TR502	25	28	31	29	30	34	150	Junction Temp.
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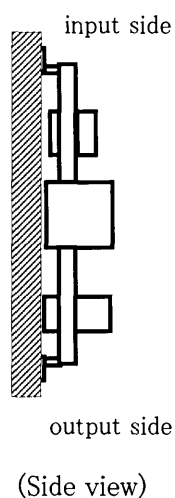


Fig.1.1 Mounting method

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- (1) Input : DC36~76V  
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## 2. Result

No.	Parts name	Symbol No.	Increase ( $\Delta T$ )						Rated temp. [°C]	Reference
			[deg]							
			5V	12V	15V					
1	Switching MOS-FET	TR101	32	30	38				150	Junction Temp.
2	Power control IC	IC101	24	27	30				150	Junction Temp.
3	Transformer (PWB)	T101	27	32	35				130	
4	Rectifying MOS-FET	TR501	25	31	28				150	Junction Temp.
5	Rectifying MOS-FET	TR502	27	27	25				150	Junction Temp.
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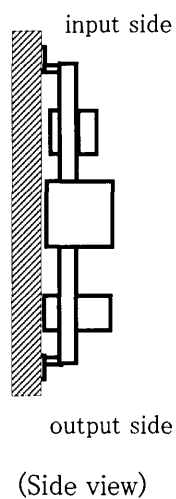


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