

Date : Aug.27,2024

Temperature increase of main components

Model: UMCS30F

1. Conditions

- (1) Input :AC 85 ~ 264 [V]
- (2) Output :Rated output *Derating is required at AC85~115[V]input.
- (3) Mounting method :As shown in Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			5V	12V	24V	48V				
1	Line Filter	L101	24.4	36.6	36.9	38			130	
2	Rectifier(Input)	SS101	34.9	55.9	53.3	54.6			150	Junction Temp.
3	Input Capacitor	C110	32.3	41.9	38.2	37.7			105	
4	Switching Transistor	TR201	47.3	49	48.3	54.7			150	Junction Temp.
5	Transformer	T201	52.2	65.9	54.5	52			130	
6	Rectifying Diode(Output)	SS501	67.5	76	61.6	51.1			150	Junction Temp.
7	Output Choke	L501	54.6	53.6	34.3	29.5			130	
8	Output Capacitor	C503	45.7	51.1	35.6	35.3			105	
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(Side view)

Fig.1.1 Mounting method
(Normal position)