

Date : Sep.4,2023

Temperature increase of main components

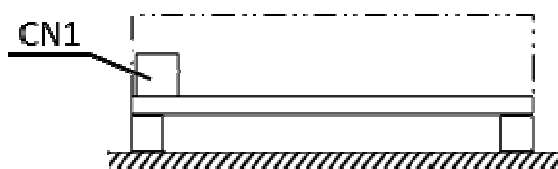
Model: UMA30F

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	15V	24V	36V	48V		
1	Line Filter	L101	19.3	29.4	28.2	29.5	21.3	32.5	130	
2	Rectifier(Input)	SS101	29.5	51	45.4	51.3	40.3	52.3	150	Junction Temp.
3	Input Capacitor	C110	20.8	30.3	32	30.6	24.6	31.5	105	
4	Switching Transistor	TR201	57	54.9	48.2	58.7	49.6	62.5	150	Junction Temp.
5	Transformer	T201	44.8	57.9	59.9	58	46.9	56	130	
6	Rectifying Diode(Output)	SS501	71.1	75.1	78.5	63.9	55.1	55.8	150	Junction Temp.
7	Output Choke	L501	44.6	34	39.2	25.1	15.7	21.7	130	
8	Output Capacitor	C503	37.9	34.1	37.3	27.7	24.8	41.1	105	
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(Side view)

Fig.1.1 Mounting method
(Normal position)