

Date : Sep.4,2023

Temperature increase of main components

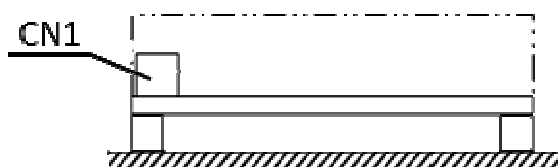
Model: UMA60F

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	7.5V	12V	15V	24V	36V	48V		
1	Line Filter	L102	55.8	42	46.7	46.4	38.6	59.4	52.1	130	
2	Rectifier(Input)	SS101	59.7	49.8	68.5	63.5	71.3	70.4	76.6	150	Junction Temp.
3	Input Capacitor	C110	31.5	34.4	38.2	33.5	37.8	40.9	39.2	105	
4	Switching Transistor	TR201	74.2	61.5	76.9	56.4	62.6	63.7	70	150	Junction Temp.
5	Transformer	T201	58.3	64.2	66.4	64	58	56.3	52.2	130	
6	Rectifying Diode(Output)	SS501	89.6	81.1	83.1	92.8	74	58.6	57.2	150	Junction Temp.
7	Output Choke	L501	36.2	67.9	57.3	53.2	38.3	32.9	29.3	130	
8	Output Capacitor	C503	43.9	44.9	45.7	34.8	29.6	29.8	27	105	
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(Side view)

Fig.1.1 Mounting method
(Normal position)