

Temperature increase of main components: 主要部品温度上昇

Model: PCA1000F

1. Conditions

- (1) Input : AC 85 ~ 264 [V]
 (2) Output : Rated output *Derating is required at 85-90[VAC] 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	32V	48V		
1	Line filter	L101	38	44	47	44	45	47	120	
2	Relay	X101	31	31	31	31	31	31	85	
3	Rectifier(Input)	SS101	67	72	70	74	70	70	150	Junction Temp.
4	Choke coil(PFC)	L103	74	79	78	81	79	76	130	
5	Transistor(PFC)	TR103	80	83	80	84	79	60	150	Junction Temp.
6	Diode(PFC)	SS110	65	65	65	67	57	47	150	Junction Temp.
7	Switching transistor1(DCDC)	TR302	80	74	72	75	70	71	150	Junction Temp.
8	Switching transistor2(DCDC)	TR313	83	75	72	74	67	69	150	Junction Temp.
9	Diode(DCDC)	D301	80	77	78	77	71	74	150	Junction Temp.
10	Step down Choke coil	L301	83	52	73	73	67	68	130	
11	Transformer	T501	72	55	55	53	45	43	155	
12	Rectified transistor(Output)	TR511	83	53	53	56	45	42	150	Junction Temp.
13	Output Capacitor	C501	23	16	16	17	14	12	125	
14										
15										
16										
17										
18										
19										
20										



(Side view)

Fig.1.1 Mounting method
(Normal position)

*All information presented herein are not guaranteed.

*本資料は参考資料であり、その内容を保証するものではありません。