

Date : Apr.4,2023

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

Model: HCA3500TF

1. Conditions

- (1) Input : 3Φ3-WIRE 180 ~ 528 [VAC]
- (2) Output : Rated output
- (3) Base plate temp : 55[°C]
- (4) Ambient temp : 70[°C]
- (5) Mounting method : As shown in Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			48V	65V						
1	Line filter	L11	35	34					130	
2	Rectifier(Input)	SS11	60	63					150	Junction Temp.
3	IGBT(Input)	TR102	48	49					150	Junction Temp.
4	Diode(PFC)	SS101	22	21					150	
5	Switching transistor(PFC)	TR105	65	66					175	Junction Temp.
6	Switching transistor(PFC)	TR106	68	68					175	Junction Temp.
7	Choke coil(PFC)	L101	28	33					130	
8	Input capacitor	C127	33	32					105	
9	Input capacitor	C308	25	25					105	
10	Switching transistor(DD)	TR302	53	53					175	Junction Temp.
11	Switching transistor(DD)	TR304	71	64					175	Junction Temp.
12	Choke coil(DD)	L301	35	37					130	
13	Transformer	T401	48	56					155	
14	Rectified transistor(Output)	TR501	43	35					150	Junction Temp.
15	Rectified transistor(Output)	TR511	49	41					150	Junction Temp.
16	ORMOS	TR525	27	20					150	Junction Temp.
17	Output choke	L501	59	30					130	
18	Output capacitor	C504	36	26					125	
19										
20										

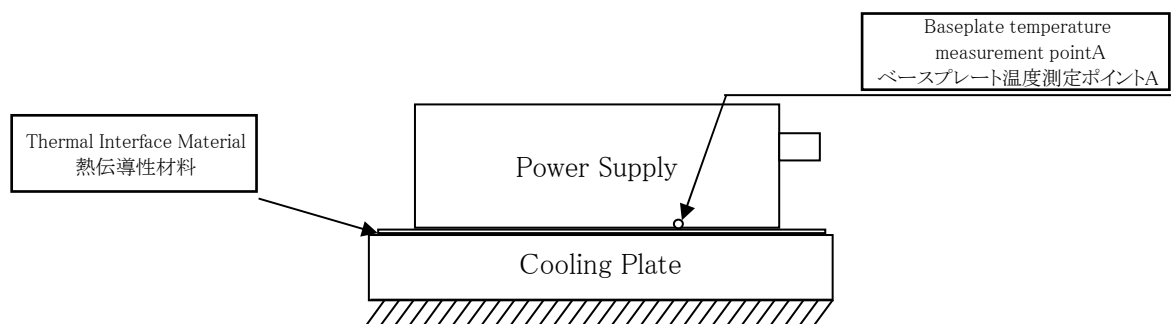


Fig.1.1 Mounting method
(Normal position)

*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。