

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

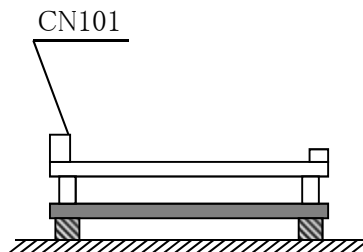
Model: GHA500F (Convection)

1. Conditions

- (1) Input : AC 90 ~ 264 [V]
- (2) Output : Rated output
- (3) Mounting method : Shown as Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			12V	15V	24V	30V	48V	56V		
1	Line Filter	L101	30	30	29	24	33	25	130	
2	Rectifier(Input)	SS11	74	73	75	63	79	68	150	Junction Temp.
3	Choke Coil(Pfc)	L11	61	62	59	50	62	52	130	
4	Input Capacitor	C106	34	37	37	31	39	34	105	
5	Rectified Diode(Pfc)	SS12	65	66	67	61	69	67	150	Junction Temp.
6	Transistor(Pfc)	TR11	62	63	65	56	67	63	150	Junction Temp.
7	Switching Transistor	TR21	66	64	64	57	67	65	150	Junction Temp.
8	Transformer	T11	65	63	65	48	63	67	155	
9	Rectified Transistor(Output)	TR54	53	52	46	49	-	-	150	Junction Temp.
10	Rectified Diode(Output)	D54	-	-	-	-	64	57	150	Junction Temp.
11	Output Choke	L51	54	57	49	49	62	55	150	
12	Output Capacitor	C506	38	41	33	34	43	34	105	
13	Output Capacitor	C508	32	35	28	25	37	33	125	
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(Side view)

Fig.1.1 Mounting method
(Normal position)

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

Model: GHA500F (Forced air)

1. Conditions

- (1) Input : AC 90 ~ 264 [V]
- (2) Output : Rated output
- (3) Mounting method : Shown as Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			12V	15V	24V	30V	48V	56V		
1	Line Filter	L101	30	32	38	34	35	39	130	
2	Rectifier(Input)	SS11	52	54	56	54	52	49	150	Junction Temp.
3	Choke Coil(Pfc)	L11	30	30	31	34	34	28	130	
4	Input Capacitor	C106	21	19	21	12	20	11	105	
5	Rectified Diode(Pfc)	SS12	31	29	34	33	28	29	150	Junction Temp.
6	Transistor(Pfc)	TR11	23	23	25	22	22	21	150	Junction Temp.
7	Switching Transistor	TR21	24	22	26	24	21	21	150	Junction Temp.
8	Transformer	T11	53	46	40	27	29	31	155	
9	Rectified Transistor(Output)	TR54	34	26	28	26	-	-	150	Junction Temp.
10	Rectified Diode(Output)	D54	-	-	-	-	32	26	150	Junction Temp.
11	Output Choke	L51	44	34	42	49	37	34	150	
12	Output Capacitor	C506	6	6	5	6	4	4	105	
13	Output Capacitor	C508	5	5	5	2	4	3	125	
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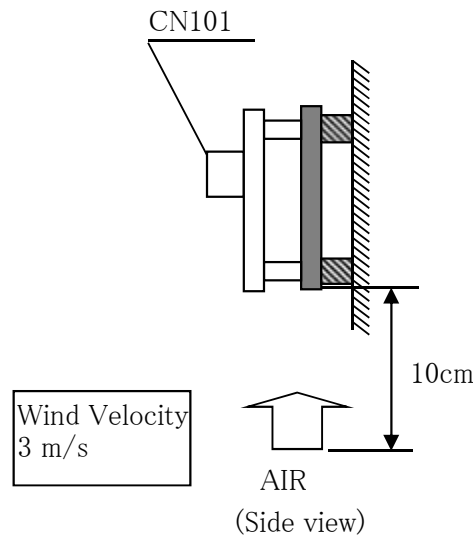


Fig.1.1 Mounting method (Normal position)