

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

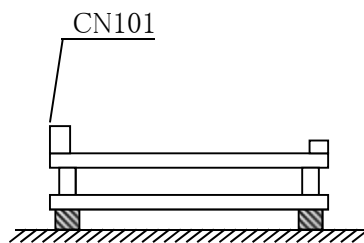
Model: GHA300F (Convection)

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	24V	48V					
1	Line Filter	L101	29	26	28				130	
2	Rectifier(Input)	SS11	93	90	91				150	Junction Temp.
3	Choke Coil(Pfc)	L11	54	53	54				130	
4	Input Capacitor	C106	34	30	32				105	
5	Rectified Diode(Pfc)	SS12	93	90	89				150	Junction Temp.
6	Transistor(Pfc)	TR11	88	83	86				150	Junction Temp.
7	Switching Transistor	TR21	88	83	79				150	Junction Temp.
8	Transformer	T11	56	43	40				130	
9	Rectified Transistor(Output)	TR54	54	47	-				175	Junction Temp.
10	Rectified Diode(Output)	D54	-	-	26				150	
11	Output Choke	L51	43	38	26				150	
12	Output Capacitor	C506	33	25	21				105	
13	Output Capacitor	C508	27	20	16				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: GHA300F (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	24V	48V					
1	Line Filter	L101	15	14	14				130	
2	Rectifier(Input)	SS11	68	65	63				150	Junction Temp.
3	Choke Coil(Pfc)	L11	24	23	26				130	
4	Input Capacitor	C106	20	24	22				105	
5	Rectified Diode(Pfc)	SS12	60	54	58				150	Junction Temp.
6	Transistor(Pfc)	TR11	44	40	43				150	Junction Temp.
7	Switching Transistor	TR21	42	45	47				150	Junction Temp.
8	Transformer	T11	30	26	25				130	
9	Rectified Transistor(Output)	TR54	47	39	-				175	Junction Temp.
10	Rectified Diode(Output)	D54	-	-	57				150	Junction Temp.
11	Output Choke	L51	34	32	22				150	
12	Output Capacitor	C506	8	6	7				105	
13	Output Capacitor	C508	7	5	7				125	
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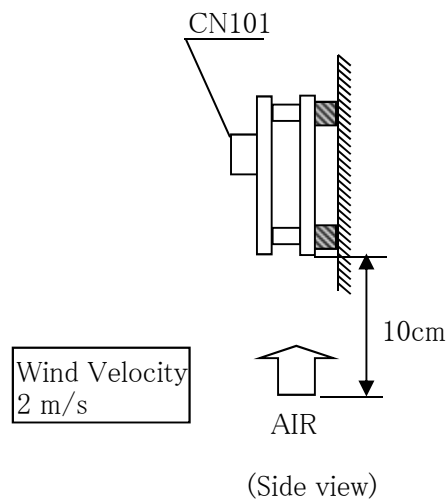


Fig.1.1 Mounting method (Normal position)