

Date : Apr.10,2024

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

Model: GHA700F (Forced air)

1. Conditions

- (1) Input :AC 85 ~ 264 [V]
- (2) Output :Rated output
- (3) Mounting method :As shown in Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			24V	30V	48V	56V				
1	Line Filter	L101	22	20	20	21			130	
2	Rectifier(Input)	SS101	67	66	62	62			150	Junction Temp.
3	Choke Coil(PFC)	L102	54	57	50	48			130	
4	Transistor(PFC)	TR101	45	43	43	43			150	Junction Temp.
5	Diode(PFC)	D101	39	42	36	39			175	Junction Temp.
6	Input Capacitor	C117	15	17	15	13			105	
7	Transformer	T201	60	54	43	52			130	
8	Switching Transistor(DCDC)	TR201	24	29	22	25			150	Junction Temp.
9	Switching Transistor(DCDC)	TR211	25	24	19	26			150	Junction Temp.
10	Rectifying Transistor(Output)	TR511	68	36	47	62			150	Junction Temp.
11	Output Choke	L501	28	17	17	21			150	
12	Output Capacitor	C522	15	10	8	11			125	
13	Output Capacitor	C523	7	5	5	6			125	
14										
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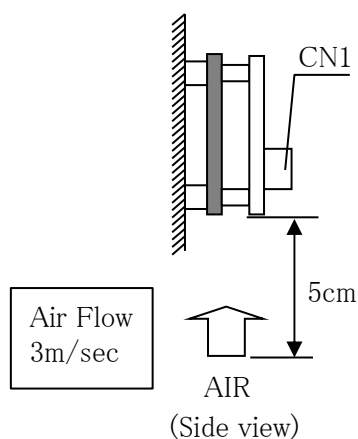


Fig.1.1 Mounting method
(Standard position)

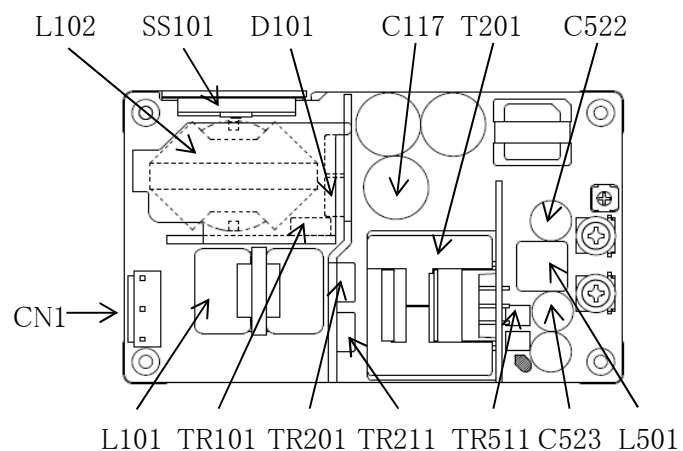


Fig.1.2 Location of Parts for Temperature measurement
(except 12V)
(arrows do not indicate the test points)

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

Model: GHA700F (Forced air)

1. Conditions

- (1) Input :AC 85 ~ 264 [V]
- (2) Output :Rated output
- (3) Mounting method :As shown in Fig.1.3

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			12V							
1	Line Filter	L101	22						130	
2	Rectifier(Input)	SS101	67						150	Junction Temp.
3	Choke Coil(PFC)	L102	54						130	
4	Transistor(PFC)	TR101	43						150	Junction Temp.
5	Diode(PFC)	D101	39						175	Junction Temp.
6	Input Capacitor	C117	17						105	
7	Transformer	T201	65						155	
8	Switching Transistor(DCDC)	TR201	24						150	Junction Temp.
9	Switching Transistor(DCDC)	TR211	25						150	Junction Temp.
10	Rectifying Transistor(Output)	TR511	46						150	Junction Temp.
11	Output Choke	L501	40						150	
12	Output Capacitor	C522	20						105	
13	Output Capacitor	C523	26						125	
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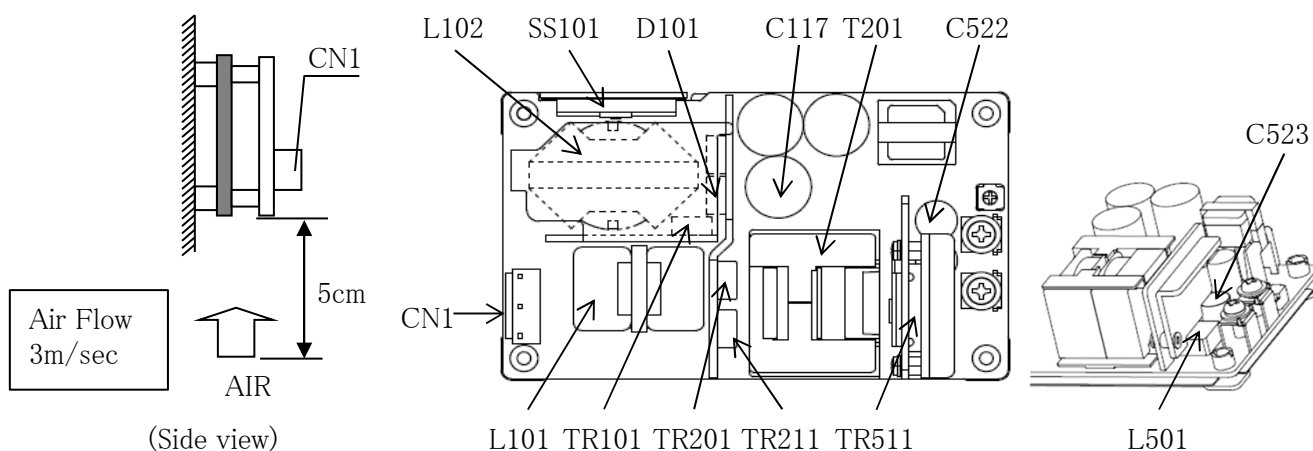


Fig.1.3 Mounting method
(Standard position)

Fig.1.4 Location of Parts for Temperature measurement
(only 12V)
(arrows do not indicate the test points)