GXE600

A263-01-01B

SPECIFICATIONS(1/2)

	ITEMS / MODEL			GXE600-24	GXE600-48
1	Nominal Output Voltage		V	24	48
2	Maximum Output Current		A	25.0	12.5
3	Maximum Output Power		W	600	600
4	Efficiency (Typ.)	100/115VAC	%	92 / 92	92 / 92
	(*1)	200/230VAC	%	94 / 95	94 / 95
5	Input Voltage Range (*2)(*10)		-	85 - 265VAC (47 - 63Hz)	
6	Input Current	100/115VAC	A	7.0 / 6.1	
	(*1)	200/230VAC	A	3.6 / 3.1	
7	Inrush Current (Typ.) (*1)(*3)	100/200VAC	A	20 / 40 at 1st Inrush, 40 / 40 at 2nd Inrush	
8	PFHC		-	Designed to meet IEC61000-3-2	
9	Power Factor (Typ.) (*1)	100/200VAC	-	0.99 / 0.95	
10	Output Voltage Range (*12) (With PV control)		V	4.8 - 28.8	9.6 - 57.6
11	Output Voltage Range (*12) (With the output voltage adjustment trimmer)		V	19.2 - 28.8	38.4 - 57.6
12	Maximum Ripple & Noise	0≤Ta≤70°C	mV	150	350
	(*4)	-20≤Ta<0°C	mV	200	400
13	Maximum Line Regulation (*5)(*10)		mV	96	192
14	Maximum Load Regulation (*6)(*10)		mV	144	288
15	Temperature Coefficient		-	Less than 0.02% / °C	
16	Over Current Protection (*7)		A	28.8 -	14.4 -
17	Over Voltage Protection (*8)		V	28.8 - 31.2	57.6 - 62.4
18	Hold-up Time (Typ.) (*1)		-	20ms	
19	Leakage Current (*9)		-	Less than 0.3mA	
20	External Output Voltage Control (PV) (*12)		-	Possible	
21	External Output Current Control (CC) (*12)		-	Possible	
22	Remote Sensing (*12)		-	Possible	
23	Monitoring Signal (*12)		-	PowerFail, ACFail (Open Collector Output)	
24	Remote ON/OFF Control (*12)		-	Possible	
25	Communication Function (*12)		-	Possible (RS-485)	
26	Parallel Operation (*12)		-	Possible (Up to 5 units)	
27	Series Operation (*12)		-	Possible	
28	Operating Temperature (*10)(*14)		-	-20 - +70°C (-20 - +50°C : 100%, +70°C : 50%), Guarantee Start up : -40 - -20°C	
29	Operating Humidity		-	20 - 90%RH (No Condensing)	
30	Storage Temperature		-	-40 - +85°C	
31	Storage Humidity		-	10 - 90%RH (No Condensing)	
32	Cooling (*10)		-	Convection Cooling, Forced Air Cooling	
33	Withstand Voltage		-	Input-FG : 2kVAC (20mA) 1MOPP, Input-Output : 4kVAC (20mA) 2MOPP, Output-FG : 1.5kVAC (20mA) 1MOPP, Output - Signal : 100VAC (20mA) functional insulation, for 1min.	
34	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output to FG : 500VDC	
35	Vibration (*13)		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.	
36	Shock (*13)		-	Less than 196m/s^2	
37	Safety		-	Approved by UL60950-1, CSA60950-1, EN60950-1, UL62368-1, CSA62368-1, EN62368-1, ES60601-1 3rd Edition, EN60601-1 3rd Edition, CSA-C22.2 No.60601-1 3rd Edition, EN62477-1 (OVC III). Designed to meet Den-an Appendix 12 (J60950-1).	

GXE600

SPECIFICATIONS(2/2)

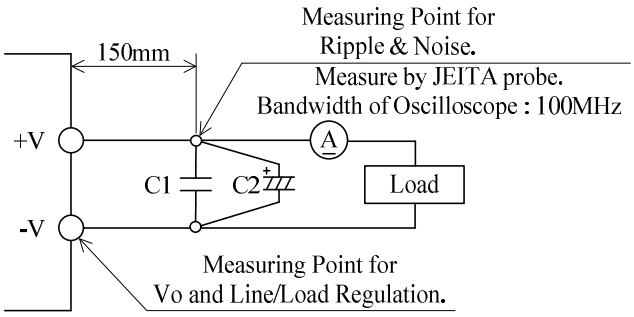
	ITEMS / MODEL			GXE600-24	GXE600-48
38	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)	
39	Conducted Emission	(*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B	
40	Radiated Emission	(*11)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B	
41	Immunity	(*11)	-	Designed to meet IEC61000-6-2, IEC61000-4-2, -3, -4, -5, -6, -8, -11, IEC60601-1-2 Edition.4	
42	Weight (Typ.)		g	1300	
43	Size (W x H x D)		mm	127 x 41 x 254 (Refer to Outline Drawing)	
44	Standby Supply		-	5V / 1A	

*Read instruction manual carefully, before using the power supply unit.

=NOTES=

*1. Ta=25°C, nominal output voltage and maximum output power.
*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC (50-60Hz).
*3. Not applicable for the inrush current to Noise Filter for less than 0.2ms.
*4. Refer to Fig. A for measurement of ripple voltage.
*5. 85 - 265VAC, constant load.
*6. No load - Full load, constant input voltage.
*7. Over current protection (OCP) mode is selectable, "Constant current limit with automatic recovery" or "Output shutdown".
Manual reset is executed by "Re power on" or "restart by remote on/off control". OCP point can be adjusted by communication function.
Avoid to operate at over load or short circuit condition.
*8. Over voltage protection (OVP) mode is selectable, "Automatic recovery" or "Output shutdown".
Manual reset is executed by "Re power on" or "restart by remote on/off control". OVP point can be adjusted by communication function.
*9. Measured by the each measuring method of UL, CSA, EN and Den-an (at 60Hz), Ta=25°C.
*10. Output Derating
- When ambient temperature is more than 50°C, refer to OUTPUT CURRENT vs. AMBIENT TEMPERATURE (A263-01-02_).
- When input voltage is less than 170VAC. Refer to OUTPUT POWER vs. INPUT VOLTAGE (A263-01-02_).
*11. The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets EMC directives.
*12. Refer to instruction manual (A263-04-01_).
*13. Using 4 Mount Holes at bottom side.
*14. At -40 - -20°C, the electrical characteristics are not guaranteed.

Fig.A



C1 : Film Cap. 0.1μF
C2 : Elect. Cap. 100μF

GXE600

A263-01-02B

OUTPUT DERATING

Ta (°C)	OUTPUT CURRENT (%)	
	MOUNTING A,B,D	MOUNTING C
-20 - +45	100	100
50	100	90
70	50	50

INPUT VOLTAGE (VAC)	OUTPUT POWER (%)	
	CONVECTION	FORCED AIR *
85	60 (360W)	100 (600W)
100	83 (500W)	
<170	83 (500W)	
170≤	100 (600W)	

*Refer to NOTES

1. OUTPUT CURRENT vs. AMBIENT TEMPERATURE

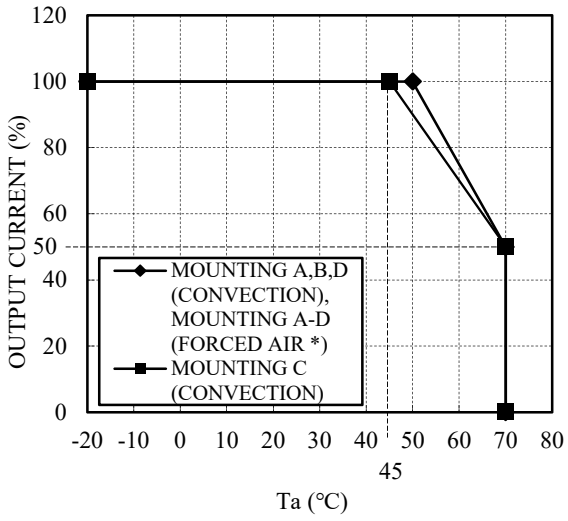


Fig. 1

2. OUTPUT POWER vs. INPUT VOLTAGE

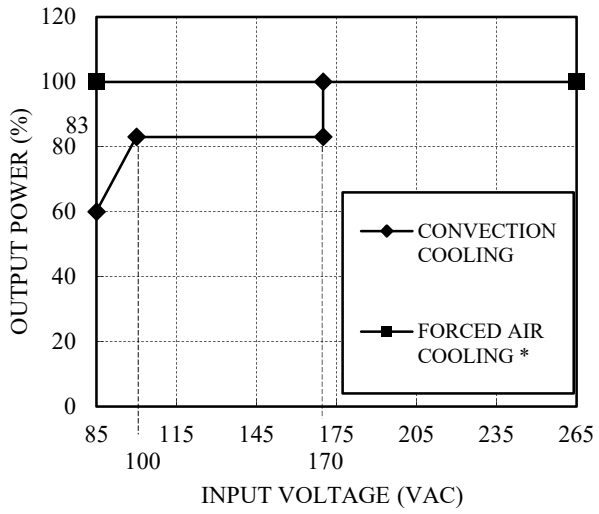


Fig. 2

=NOTES=

Use so that both of 1. and 2. shall be satisfied.

1. Derating is necessary to output current in case of ambient temperature more than 50°C. (Fig.1)
2. Derating is necessary to output power in case of input voltage less than 170VAC. (Fig.2)

For example, in case of input voltage 100VAC and ambient temperature 60°C and mounting A at 24V model .

According to 1. ambient temperature derating, output current limit is 75% (18.75A). ---(1)

According to 2. input voltage derating, output power limit is 500W. ---(2)

When Vo ≤ 26.6V, the derating is determined by output current (1). Because output power is less than 500W (26.6V x 18.75A).

When Vo > 26.6V, the derating is determined by output power (2).

*In forced air condition, the entire components shall be cooled. Temperature of L2 and L5 need to be less than 85 °C.

(Refer to instruction manual for more information)

MOUNTING A (STANDARD MOUNTING) | MOUNTING B | MOUNTING C | MOUNTING D | DON'T USE