TDK-Lambda

GXE600

A263-01-01C

SPECIFICATIONS(1/2)

	ITEMS	MODEL		GXE600-24	GXE600-48
1	Nominal Output Voltage		V	24	48
2	Maximum Output Current		Α	25.0	12.5
3	Maximum Output Power		W	600	600
4	Efficiency (Typ.)	100/115VAC	%	92 / 92	92 / 92
		200/230VAC	%	94 / 95	94 / 95
5	Input Voltage Range	(*2)(*10)	-	85 - 265VAC	(47 - 63Hz)
6	Input Current	100/115VAC	А	7.0 / 6.1	
	•	200/230VAC		3.6 / 3.1	
7	Inrush Current (Typ.) 100/200VAC		А	20 / 40 at 1st Inrush, 40 / 40 at 2nd Inrush	
,	(*1)(*3)				
8	PFHC		-	Designed to meet IEC61000-3-2	
9	Power Factor (Typ.) (*1)	100/200VAC	-	0.99 / 0.95	
10	Output Voltage Range	(*12)	V	4.8 - 28.8	9.6 - 57.6
10	(With PV control)	(12)	•	1.0 20.0	210 2110
11	Output Voltage Range	(*12)	V	19.2 - 28.8	38.4 - 57.6
	(With the output voltage adjustmen	. ,	•	17.2 20.0	50.1 57.0
12	Maximum Ripple & Noise	0 <u>≤</u> Ta <u>≤</u> 70°C	mV	150	350
12		-20≤Ta<0°C		200	400
13	Maximum Line Regulation	<u>-20≤1a<0 C</u> (*5)(*10)		96	192
13	Maximum Load Regulation	(*6)(*10)		144	288
14	Temperature Coefficient	(0)(10)	III V	Less than 0	
16	Over Current Protection	(*7)	Ā	27.5 -	13.8 -
17	Over Voltage Protection	(*7)	A V	28.8 - 31.2	57.6 - 62.4
17	Hold-up Time (Typ.)	(*8)	v	28.8 - 51.2 20n	
10	Leakage Current	(*1)	-	Less than 0.3mA	
20	External Output Voltage Contr	(-)	-	Possible	
20	External Output Current Control		-	Possible	
21	Remote Sensing	(*12)	-	Possible	
22			-	Possible PowerFail, ACFail (Open Collector Output)	
23	Monitoring Signal (*12) Remote ON/OEE Control (*12)		-	PowerFail, ACFail (Open Collector Output) Possible	
	Remote ON/OFF Control (*12)		-		
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 : -4020°C	
29	Operating Humidity		-	20 - 90%RH (No Condensing)	
30	ê 1	Storage Temperature		-40 - +85°C	
31	8 7		-	10 - 90%RH (No Condensing)	
32	Cooling (*10) - Convection Cooling, Forced Air Cooling		0		
33	Withstand Voltage	a voltage		Input-FG : 2kVAC (20mA) 1MOPP, Input-Output : 4kVAC (20mA) 2MOPP, Output-FG : 1.5kVAC (20mA) 1MOPP,	
				1	
				Output - Signal : 100VAC (20mA) functional insulation, for 1min. More than 100MΩ at 25°C and 70%RH Output to FG : 500VDC	
34	Isolation Resistance	/.t. a = 1	-		*
35	Vibration	(*13)	-	At no operating, $10 - 5$	
	<u>qi</u> i			19.6m/s ² Constant, 1	
36	Shock (*13) -		-	Less than $196m/s^2$	
37	Safety		-	Approved by UL6095	
				UL62368-1, CSA623	
				ES60601-1, E	
				CSA-C22.2 No.60601-1,	
				Designed to meet Den-an Apper	ndix 12 (J60950-1, J62368-1).

SPECIFICATIONS(2/2)

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.

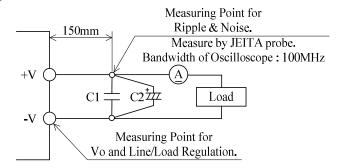
=NOTES=

- *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

TDK-Lambda

FORCED AIR

235

265

COOLING *

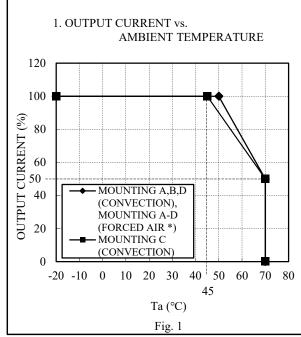
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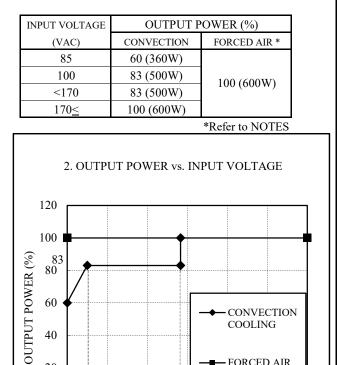
GXE600

A263-01-02B

OUTPUT DERATING

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





=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 \leq 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).

40

20

0

85

115

100

145

175

170

INPUT VOLTAGE (VAC)

Fig. 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)

