GXE600 Series

Single output 600W Programmable Medical and ITE Power Supplies

Features

- ◆ Convection Cooled
- ◆ Up to 95% Efficient
- ◆ RS-485 Read-Write Communication (Modbus RTU protocol)
- ◆ Constant Voltage & Constant Current Modes
- ◆ Monitoring & Programming Functions
- Digital or Analog Programming
- Seven Year Warranty

Key Market Segments & Applications













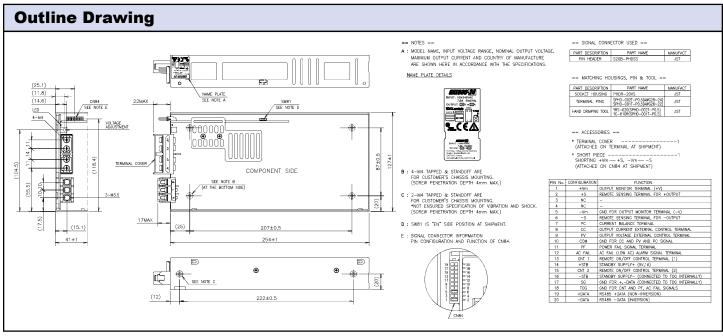


Specifications			
Model		GXE600-24	GXE600-48
AC Input Voltage range (1)	VAC	85 - 265VAC (47 - 63Hz). Withstands 300VAC for 5s	
Inrush Current (100 / 200VAC)	Α	40 / 40A	
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2 (0.99 / 0.95)	
Input Current (115/230VAC) (Typ)	Α	6.1 / 3	3.1A
Nominal Output Voltage	VDC	24V	48V
Maximum Output Current	Α	25A	12.5A
Output Voltage Range (Manual Adjust)	VDC	19.2 - 28.8V	38.4 - 57.6V
Output Voltage Range (Via Programming) (2)	VDC	4.8 - 28.8V	9.6 - 57.6V
Current Limit Set Point (Via Programming) (2)	Α	5 - 28.8A	2.5 - 14.4A
Temperature Coefficient	%/°C	<0.02 ¹ %/°C	
Regulation	-	See Mode	l Selector
Overcurrent Protection (3)	-	>28.8A	>14.4A
Overvoltage Protection (3)	V	28.8 - 31.2V	57.6 - 62.4V
Hold Up Time (Typ at 100% load)	ms	20r	ns
Leakage Current (max)	mA	<0.3	mA
Standby Voltage Vsb)	-	4.8V - 5.2V 1A	
Remote Sense	-	Ye	es
Remote On/Off	-	Isolated opto-coupler. Unit off when cu	rrent is flowing through the opto diode
Power Fail Signal	-	Signal is high when the output voltage d	rops due to AC loss or OCP, OVP, OTP
AC Fail Signal	-	Signal goes high when the	e AC input is not present
Parallel Operation	-	Yes, up to five units	
Operating Temperature (-40°C start up)	°C	Convection: -20 to +70°C, derate linearly to 50% load from 50 to 70°C (4)	
Storage Temperature	°C	-40 to -	
Operating Humidity (non condensing)	%RH	20 - 90	9%RH
Storage Humidity (non condensing)	%RH	10 - 90%RH	
Cooling	-	Convection or fo	rced air cooling
Withstand Voltage	VAC	Input to Ground 2kVAC (1xMOPP),	
S		Output to Ground 1.5kVAC (1xMOPP)	Output to Signals 100VAC for 1 min.
Isolation Resistance	ΜΩ	>100MΩ at 25°C & 70%RH,	
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² (swee	
(1 0/		/HD version: Designed to meet MIL	
Shock	-	< 196.1m/s ² /HD version: Designed to me	
Safety Agency Certifications	-	IEC/UL/CSA/EN60950-1, IEC/UL/CSA/	
, , ,		IEC/EN62477-1 (C	
Line Dips	-	SEMI-F47 (200VAC input)	
Conducted & Radiated EMI	-	EN55011 / EN55032-B, FCC Class B, VCCI-B	
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11, IEC61000-6-2, IEC60601-1-2 Ed 4	
Weight (Typ)	g	1300	
Size (WxHxD)	mm	127 x 41 x 254mm	
MTBF - Telcordia SR-332 issue 3*	Hours	511,677 hours	
Warranty	Yrs	Seven Years	

^{(1) 85}Vac: 360W, 100 to <170Vac: 500W, 170V to 265Vac: 600W (Convection cooled). 600W when forced air is applied (see installation manual) (2) Using RS-485 communications or external 1-6V voltage source. See installation manual for details (3) Overcurrent & Overvoltage limits and recovery modes can be set using the RS-485 communications (4) See installation manual for full derating curves *24V output model, 25°C ambient, full load, 230VAC input

Model Selector						
Model	Output Voltage (V)	Max Output Power (W)	Load Reg (mV)	Line Reg (mV)	Ripple Noise (mV)	Efficiency (typ) % 115/230 VAC
GXE600-24	24	600	144	96	150	92 / 95
GXE600-48	48	600	288	192	350	92 / 95

Monitoring and Programming Functions						
Function	Digital (RS-485) Control	Analog Control				
Output Voltage Monitor	Read back	No				
Output Current Monitor	Read back	No				
Output Voltage Programming	Adjustable	Adjustable, use a 1-6V external voltage source				
Output Current Programming	Adjustable	Adjustable, use a 1-6V external voltage source				
Over Voltage Protection Set Point	Adjustable	Fixed				
Over Voltage Recovery	Auto-recovery or manual settings	Cycle AC input or use the remote on/off				
Over Current Set Point	Adjustable	Fixed				
Over Current Recovery	Auto recovery: Constant current, hiccup or foldback Latching: Constant current or foldback	Constant current, auto-recovery				
Over Temperature Recovery	Cycle AC input or use the remote on/off	Cycle AC input or use the remote on/off				
Remote On/Off	Yes, enable or inhibit type	Yes, enable or inhibit type				
Internal Temperature Monitoring	Yes, -20 to +100°C	No				
Operating Run Time Log	Records more than 20 years of data	No				
Remaining Electrolytic Capacitor Life	Indicates hours left	No				
Alarm History	OCP, OVP, OTP, remote on/off, system error	No				
Slew Rate (Rise-time) Control	Voltage and current	No				
Communication Configuration	ID, Baud Rate, Parity	Not applicable				
Product Information	Model #, serial #, lot #, firmware version	Not applicable				
Power Fail Signal Threshold	Adjustable for either output voltage or current	Fixed (voltage only)				



Suffix Description Blank U channel chassis /A U channel chassis with cover /HD U channel chassis, ruggedized & pcb coating	Options		
/A U channel chassis with cover /HD U channel chassis, ruggedized & pcb coating	Suffix	Description	
/HD U channel chassis, ruggedized & pcb coating	Blank	U channel chassis	
· · · - · · · · · · · · · · · · · · ·	/A	U channel chassis with cover	
/LIDA II share at abassis with saven menadical 8 rate acation	/HD	U channel chassis, ruggedized & pcb coating	
/HDA U channel chassis with cover, ruggedized & pcb coating	/HDA	U channel chassis with cover, ruggedized & pcb coating	

For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

