## 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**













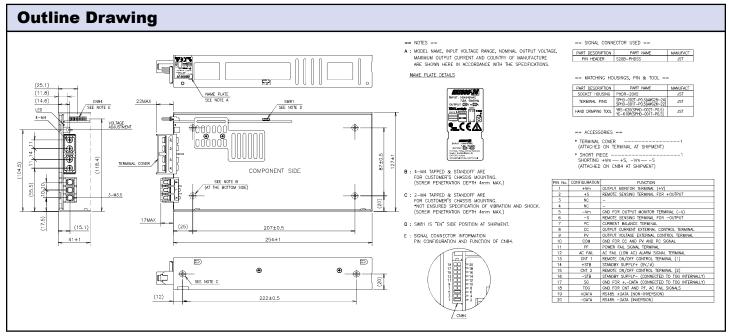


Specifications				
Model		GXE600-24	GXE600-48	
AC Input Voltage range (1)	VAC	85 - 265VAC (47 - 63Hz). Withstands 300VAC for 5s		
Inrush Current (100 / 200VAC)	Α	40 /		
Power Factor (100 / 200VAC)	-	Meets EN61000-	3-2 (0.99 / 0.95)	
Input Current (115/230VAC) (Typ)	Α	6.1 /		
Nominal Output Voltage	VDC	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%/°C		
Regulation	-	See Model 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	20ms		
Leakage Current (max)	mA	<0.3mA		
Standby Voltage Vsb)	-	4.8V - 5.2V 1A		
Remote Sense	-	Yes		
Remote On/Off	-	Isolated opto-coupler. Unit off when cu		
Power Fail Signal	-	Signal is high when the output voltage drops due to AC loss or OCP, OVP, OTP		
AC Fail Signal	-	Signal goes high when the 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 +85°C		
Operating Humidity (non condensing)	%RH	20 - 90%RH		
Storage Humidity (non condensing)	%RH	10 - 90		
Cooling	-	Convection or fo		
Withstand Voltage	VAC	Input to Ground 2kVAC (1xMOPP),		
William Vallage	", "	Output to Ground 1.5kVAC (1xMOPP)		
Isolation Resistance	ΜΩ	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC		
Vibration (non operating)	- 10132	10 - 55Hz: 19.6m/s² (sweep 1 min) X, Y, Z for 1 hour		
vibration (non operating)				
Shock	_	/HD version: Designed to meet MIL-STD-810G 514.7 Category 4, 10 < 196.1m/s² /HD version: Designed to meet MIL-STD-810G 516.7 Procedure I, VI		
Safety Agency Certifications	_	IEC/UL/CSA/EN60950-1, IEC/UL/CSA/		
Calcity Agency Gertinoations				
Line Dips	_	IEC/EN62477-1 (OVC III), CE Mark SEMI-F47 (200VAC input)		
Conducted & Radiated EMI	-	EN55011 / EN55032-B, FCC Class B, VCCI-B		
Immunity	_			
Weight (Typ)	- a	IEC61000-4-2, -3, -4, -5, -6, -8, -11, IEC61000-6-2, IEC60601-1-2 Ed 4		
Size (WxHxD)	g mm	1300 127 x 41 x 254mm		
MTBF - Telcordia SR-332 issue 3*				
	Hours	511,677 hours Seven Years		
Warranty	Yrs	Severi		

<sup>(1) 85</sup>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 +100oC	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)			



Options		
Suffix	Description	
Blank	U channel chassis	
/A	U channel chassis with cover	
/HD	U channel chassis, ruggedized & pcb coating	
/HDA	U channel chassis with cover, ruggedized & pcb coating	

For Additional Information, please visit us.tdk-lambda.com/lp/products/gxe-series.htm

