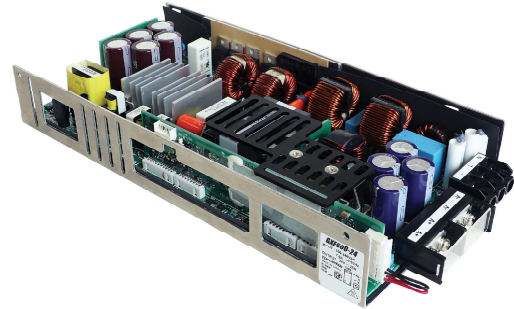


Single output 600W Programmable Medical and ITE Power Supplies

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)	A	40 / 40A	
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2 (0.99 / 0.95)	
Input Current (115/230VAC) (Typ)	A	6.1 / 3.1A	
Nominal Output Voltage	VDC	24V	48V
Maximum Output Current	A	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⁾	A	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 current is flowing through the opto diode	
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%RH	
Cooling	-	Convection or forced air cooling	
Withstand Voltage	VAC	Input to Ground 2kVAC (1xMOPP), Input to Output 4kVAC (2xMOPP), Output to Ground 1.5kVAC (1xMOPP), Output to Signals 100VAC for 1 min.	
Isolation Resistance	MΩ	>100MΩ at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² (sweep 1 min) X, Y, Z for 1 hour /HD version: Designed to meet MIL-STD-810G 514.7 Category 4, 10	
Shock	-	< 196.1m/s ² /HD version: Designed to meet MIL-STD-810G 516.7 Procedure I, VI	
Safety Agency Certifications	-	IEC/UL/CSA/EN60950-1, IEC/UL/CSA/EN62368-1, IEC/ES/CSA/EN60601-1, IEC/EN62477-1 (OVC III), CE Mark	
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) 85Vac: 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)

Outline Drawing

== NOTES ==

A : MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND COUNTRY OF MANUFACTURE ARE SHOWN HERE IN ACCORDANCE WITH THE SPECIFICATIONS.

NAME PLATE DETAILS

== SIGNAL CONNECTOR USED ==

PART DESCRIPTION	PART NAME	MANUFACT
PIN HEADER	S20B-PH05S	JST

== MATCHING HOUSINGS, PIN & TOOL ==

PART DESCRIPTION	PART NAME	MANUFACT
SOCKET HOUSING	PH5B-20VS	JST
TERMINAL PINS	SPHD-001T-PO.5/AWG28-24	JST
	SPHD-001T-PO.5/AWG28-22	JST
HAND CRIMPING TOOL	WPC-400/SPHD-001-PC.5	JST
	WC-410R/SPHD-001T-PO.5	JST

== ACCESSORIES ==

- * TERMINAL COVER (ATTACHED ON TERMINAL AT SHIPMENT) -----1
- * SHORT PIECE (SHORTING +Vm → +S, -Vm → -S (ATTACHED ON CNB4 AT SHIPMENT) -----1

B : 4-M4 TAPPED & STANDOFF ARE FOR CUSTOMER'S CHASSIS MOUNTING. (SCREW PENETRATION DEPTH 4mm MAX.)

C : 2-M4 TAPPED & STANDOFF ARE FOR CUSTOMER'S CHASSIS MOUNTING. *NOT ENSURED SPECIFICATION OF VIBRATION AND SHOCK. (SCREW PENETRATION DEPTH 4mm MAX.)

D : SWB1 IS "EN" SIDE POSITION AT SHIPMENT.

E : SIGNAL CONNECTOR INFORMATION PIN CONFIGURATION AND FUNCTION OF CNB4.

PIN No.	CONFIGURATION	FUNCTION
1	+Vm	OUTPUT MONITOR TERMINAL (+V)
2	+S	REMOTE SENSING TERMINAL FOR +OUTPUT
3	NC	-
4	NC	-
5	-Vm	GND FOR OUTPUT MONITOR TERMINAL (-V)
6	-S	REMOTE SENSING TERMINAL FOR -OUTPUT
7	PC	CURRENT BALANCE TERMINAL
8	CC	OUTPUT CURRENT EXTERNAL CONTROL TERMINAL
9	PV	OUTPUT VOLTAGE EXTERNAL CONTROL TERMINAL
10	COM	GND FOR CC AND PV AND PC SIGNAL
11	PF	POWER FAIL SIGNAL TERMINAL
12	AC FAIL	AC FAIL (LOW AC) ALARM SIGNAL TERMINAL
13	CNT 1	REMOTE ON/OFF CONTROL TERMINAL (1)
14	+STB	STANDBY SUPPLY+ (5V, I _A)
15	CNT 2	REMOTE ON/OFF CONTROL TERMINAL (2)
16	-STB	STANDBY SUPPLY- (CONNECTED TO TOG INTERNALLY)
17	SG	GND FOR +-DATA (CONNECTED TO TOG INTERNALLY)
18	TOG	GND FOR CNT AND PF, AC FAIL SIGNALS
19	+DATA	RS485 +-DATA (NON-INVERSION)
20	-DATA	RS485 -DATA (INVERSION)

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
<https://product.tdk.com/info/en/products/power/index.html>



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