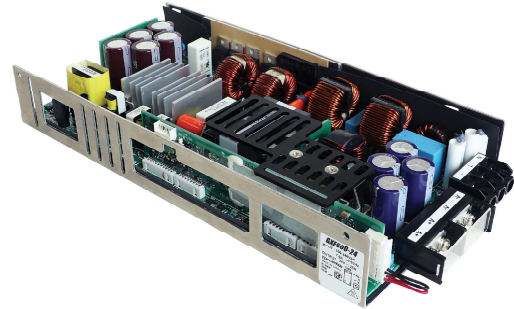


Single output 600W Programmable Medical and ITE Power Supplies

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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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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