

Tetra[®] LED Systems Power Supply

(GEPS24-180U)

Power Supply Features

- Supports Tetra PowerStrip DS, Tetra Contour and Tetra Contour LS LED lighting systems
- Class 2 wiring per NEC Article 725 (SELV equivalent)
- Damp location rated
- IP66 rated: separate enclosure required



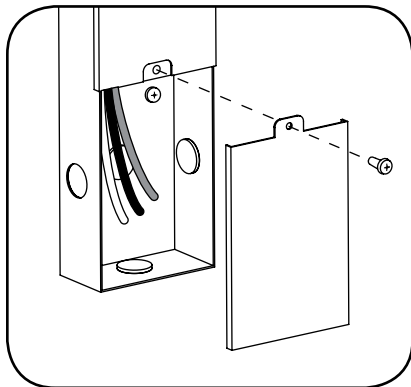
BEFORE YOU BEGIN

Read these instructions completely and carefully.

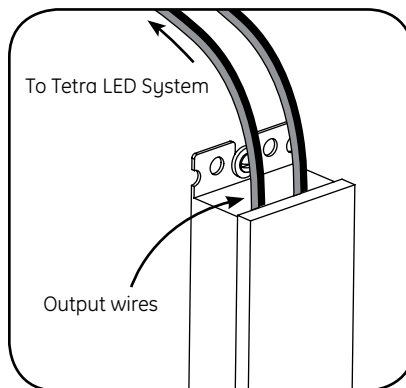
⚠ WARNING/AVERTISSEMENT

Risk of electrical shock. Disconnect power before servicing or installing product. **Risk of fire.** Do not interconnect output terminations. **Risque de choc électrique.** Couper l'alimentation avant le dépannage ou avant l'installation du produit. **Risque du feu.** Risques d'incendie ou de choc électriques. Ne pas interconnecter les bornes de sortie.

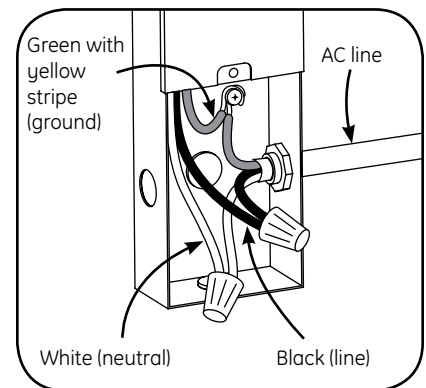
Power Supply Installation



- 1 Mount power supply and remove junction box cover. Carefully remove knockout for AC line input wires. Install appropriate electrical fittings in the knockout holes for wire protection.



- 2 Connect the supply wire that is attached to the Tetra LED System to the red (+) and black (-) output wires of the power supply as outlined in the "Electrical Connections" section of your LED system's Installation Instructions.



- 3 Connect the AC line to the black (line) and white (neutral) input wires of the power supply using 18-14 AWG (0.82-2.08 mm²) twist-on wire connectors. Ground power supply by connecting green wire with yellow stripe to grounding screw. Replace junction box cover.



NOTE: For CSA approval, a disconnect/toggle switch of appropriate rating needs to be placed within 29.5 feet (9 meters) of primary side of the power supply. The minimum rating of the switch must be either 120 or 220 Volts AC. The switch must also support twice the amount of input current.

NOTE: When installing power supply, connect to the appropriate sized building breaker or disconnect device for line, neutral and ground connections, in accordance with National Electric Code (NEC) Article 600 and all local regulations.

Power Supply Specifications

| Performance Data | Min | Typical | Max |
|---|-------|---------|--------|
| Input Voltage (VAC) | 90 | 100-277 | 305 |
| Input Frequency (Hz) | - | 50/60 | - |
| Input Current (A) | 0.7 | - | 2.5 |
| Output Voltage (VDC) | 23.25 | 24.0 | 24.75 |
| Output Current (ADC) per output bank | - | - | 3.8 |
| Output Power (W) | - | - | 180 |
| Environmental Specifications | Min | Typical | Max |
| Environmental Operating Temperature Range | -40°C | +25°C | +60°C* |
| Environmental Humidity (non-condensing) | 0% | - | 95% |
| Environmental Storage Temperature Range | -40°C | - | +85°C |

* Maximum case temperature is 80°C

| Enclosure Specifications | Dimensions |
|--------------------------|---|
| Damp Location Rated | 15.5 in. x 2.5 in. x 1.6 in. (392 mm x 62 mm x 40 mm) |

| Loading per Power Supply | Maximum load per output bank | Maximum load per power supply |
|--------------------------|------------------------------|-------------------------------|
| Tetra PowerStrip DS | 14 modules/14 ft. (4.27 m) | 28 modules/28 ft. (8.54 m) |
| Tetra Contour | 27 ft. (8.23 m) | 54 ft. (16.46 m) |
| Tetra Contour LS | 27 ft. (8.23 m) | 54 ft. (16.46 m) |

NOTE: Exceeding maximum load will cause the power supply to shut down. Once the excess load is removed, cycle the input power to restart the power supply.

| Maximum Remote Mounting Distance | 18AWG (0.82 mm ²) | 16AWG (1.31 mm ²) | 14AWG (2.08 mm ²) | 12AWG (3.31 mm ²) | 10AWG (5.27 mm ²) | 8AWG (8.35 mm ²) |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|
| Tetra PowerStrip DS | 20 ft. (6.10 m) | 25 ft. (7.62 m) | 35 ft. (10.67 m) | 60 ft. (18.29 m) | 75 ft. (22.86 m) | 100 ft. (30.46 m) |
| Tetra Contour/Tetra Contour LS | 30 ft. (9.14 m) | 50 ft. (15.24 m) | 80 ft. (24.38 m) | 120 ft. (36.58 m) | - | - |

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.
- Shut off power at fuse box or circuit breaker before installation.

RISK OF FIRE:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82 mm²)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada.

Conforms to the following standards:



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