GE
Lumination

Installation Guide

12 Volt

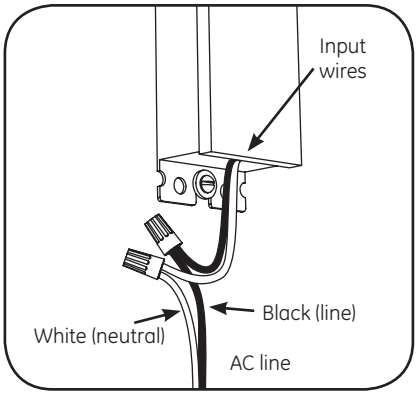
Tetra® LED Systems Power Supply

(GEXLPS21 & GEXLPS21-U)

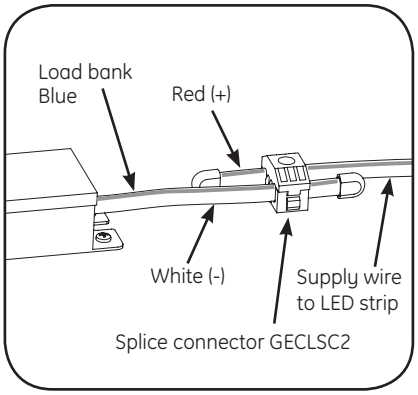
Power Supply Features

- Supports all colors of Tetra® XL and Tetra® Power White XL LED Lighting Systems
- Class 2 wiring per NEC Article 725 (SELV)
- Damp location rated
- IP66 rated: separate enclosure required

Power Supply Installation



1 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.



2 Connect the supply wire that is attached to the LED strip to the power supply load bank using the GECLSC2 splice connector.

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.

Specific load information for the supported LED systems can be found in the "**Power Supply Specifications**" section on the next page.

imagination at work

⚠ WARNING

Risk of electrical shock. Turn power OFF before inspection, installation or removal.

NOTE: The power supply must be mounted in the appropriate (UYMR or UL approved) electrical enclosure. The power supply can be mounted horizontally or vertically. It is recommended that at least 2 mountings screws (#8 or #10, M4 or M5) be used to mount the power supply. Attach the ground wire (minimum 18 AWG (0.82mm^2)) to the base of the power supply enclosure. The grounding and bonding of the power supply and overall sign shall be done in accordance with National Electric Code (NEC) Article 600.

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 and neutral connections, in accordance with local, state or country regulations.

Power Supply Specifications

	Minimum	Typical	Maximum
Input GEXLPS21—Voltage (VAC)	108	120/230	264
Input GEXLPS21-U—Voltage (VAC)	108	120/230/277	305
Input Frequency (Hz)	47	-	63
Input Current (A)	0.75	0.32	0.26
Output Voltage (VDC)	11.7	12.0	12.3
Output Current (ADC)	0.2	-	5.0
Output Power (W)	1.0	-	65
Environmental Operating Temp. Range	-40°C	+25°C	+60°C
Environmental Humidity (Non-condensing)	0%	-	95%
Environmental Storage Temp. Range	-40°C	-	+85°C

Enclosure Specification	**Dimensions**
Damp Location Rated	9.5 in. x 1.7 in. x 1.2 in. (241 mm x 43.2 mm x 30.5 mm)

Load	**Minimum (modules/ft/m)**	**Maximum (modules/ft/m)**
Tetra XL		
6 LEDs/ft (~20 LEDs/m)	72 / 12 / 3.66	480 / 80 / 24.38
5 LEDs/ft (~17 LEDs/m)	75 / 15 / 4.57	480 / 96 / 29.26
Tetra Power White XL		
(GEWWXHS3-32K) 3 LEDs/ft (~10 LEDs/m)	9 / 3 / 0.91	51/17/5.18
(GEWHXHS2-65K, GEWWXH2-32K)) 2 LEDs/ft (~7 LEDs/m)	9 / 4.5 / 1.37	51 / 25.5 / 7.80

NOTE: Remote mounting for up to 20 ft. (6.09m) use 14AWG (2.08mm^2) (GECLSW1), up to 40 ft. (12.20m) use 12AWG (3.31mm^2), up to 75 ft. (22.87m) use 10AWG (5.27mm^2).

⚠ 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 mm^2)

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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