

Tetra® LED Systems Power Supply

(GEPS24-80 & GEPS24-100U)

Power Supply Features

- Supports Tetra PowerStrip DS, Tetra PowerGrid, Tetra Contour and Tetra Contour LS LED Lighting Systems
- Class II wiring per NEC Article 725 (SELV)
- Damp location rated
- IP66 rated: separate enclosure required



BEFORE YOU BEGIN

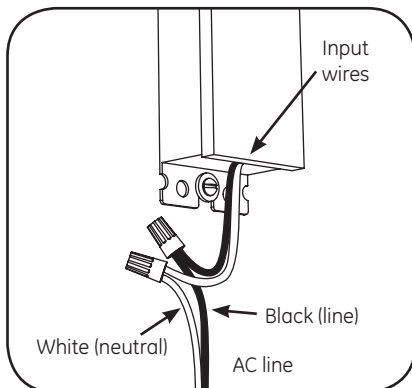
Read these instructions completely and carefully.

⚠ WARNING / AVERTISSEMENT

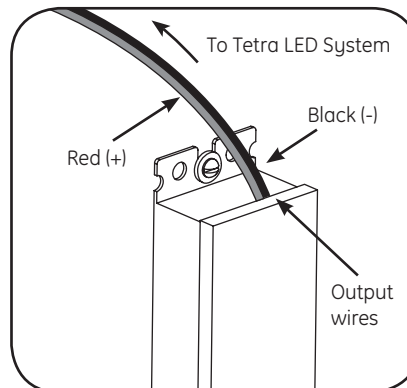
Risk of electrical shock. Disconnect power before servicing or installing product.

Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.

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 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 Guide**.

NOTE: Power Supply Loads

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.



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

	GEPS24-80			GEPS24-100U		
	Minimum	Typical	Maximum	Minimum	Typical	Maximum
Input Voltage (VAC)	108	100-240	264	108	115-277	305
Input Frequency (Hz)	-	50/60	-	-	50/60	-
Input Current (A)	0.5	0.6	1.1	0.4	0.6	1
Output Voltage (VDC)	24.25	25.00	25.75	24.25	25.00	25.75
Output Current (ADC)	-	-	3.3	-	-	4.1
Output Power (W)	-	-	80	-	-	100
Environmental Operating Temperature Range	-40°C	+25°C	+60°C*	-40°C	+25°C	+55°C*
Environmental Humidity (Non-condensing)	0%	-	95%	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C	-40°C	-	+85°C
Load per Power Supply						*Maximum case temperature is 90°
Tetra PowerStrip DS	1 module	-	12 modules 12 ft.(3.66m)	1 module	-	16 modules 16 ft.(4.88m)
Tetra PowerGrid	1 module	-	21 modules 14 ft.(4.27m)	1 module	-	24 modules 16 ft.(4.88m)
Tetra Contour	16 in. (406mm)	-	24 ft. (7.32m)	16 in. (406mm)	-	30 ft. (9.14m)
Tetra Contour LS	8 in. (203mm)	-	24 ft. (7.32m)	8 in. (203mm)	-	30 ft. (9.14m)

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)

Maximum Remote Mounting Distance	18AWG (0.82mm ²)	16AWG (1.31mm ²)	14AWG (2.08mm ²)	12AWG (3.31mm ²)	10AWG (5.27 mm ²)	8AWG (8.35 mm ²)
Tetra PowerStrip DS	20 ft. (6.10m)	25 ft.(7.62m)	35 ft. (10.67m)	40 ft. (12.19m)	75 ft. (22.86m)	100 ft. (30.46m)
Tetra PowerGrid	30 ft. (9.14m)	50 ft. (15.24m)	80 ft.(24.38m)	120 ft.(36.58m)	-	-
Tetra Contour/Tetra Contour LS	30 ft. (9.14m)	50 ft. (15.24m)	80 ft.(24.38m)	120 ft.(36.58m)	-	-

! 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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