

# Tetra® LED Systems Power Supply

(GEPS24D-80U)

## Power Supply Features

- Supports Tetra PowerStrip DS, Tetra miniStrip DS, Tetra EdgeStrip, Tetra Contour and Tetra Contour LS LED lighting systems
- Compatible with 0-10V Dimming controller
- Class 2 wiring per NEC Article 725
- Damp location rated
- IP66 rated: separate enclosure required



## BEFORE YOU BEGIN

Read these instructions completely and carefully.

### ⚠ WARNING/AVERTISSEMENT

#### RISK OF ELECTRIC SHOCK:

- Disconnect power at fuse box or circuit breaker before servicing or installing product.
- Properly ground Tetra® power supply.

#### RISK OF FIRE:

- Use only Tetra® supply wire to make connection from Tetra® power supply to Tetra® LED strip.
- Use only approved wire for input/output connection. Minimum size 18 AWG (0.82mm<sup>2</sup>)
- Follow all NEC and local codes.

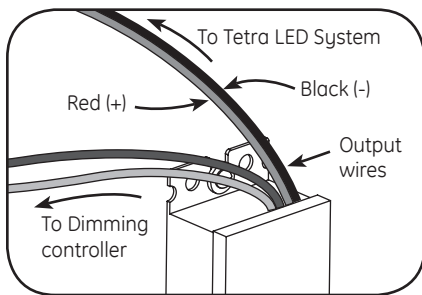
#### RISQUES DE DÉCHARGES ÉLECTRIQUES

- Coupez l'alimentation électrique à la boîte de fusibles ou au disjoncteur avant l'entretien ou l'installation du produit.
- Assurez-vous de correctement mettre à terre l'alimentation électrique Tetra®.

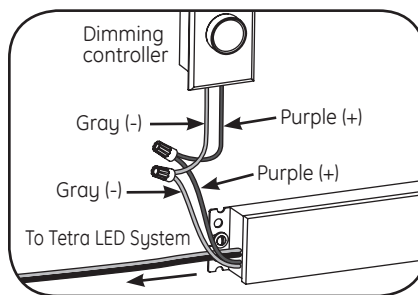
#### RISQUES D'INCENDIE

- N'utilisez que le fil d'approvisionnement Tetra® pour faire la connexion entre l'alimentation Tetra® et la bande DEL Tetra®.
- N'utilisez que des fils approuvés pour les entrées/sorties de connexion. Taille minimum 18 AWG (0.82mm<sup>2</sup>).
- Respectez tous les codes NEC et codes locaux.

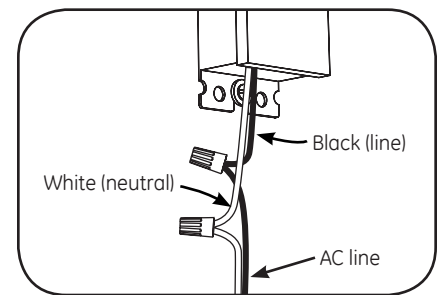
## Power Supply Installation



- 1 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**.



- 2 Connect the (+) purple and (-) gray wires of the Tetra Dimming Power Supply to the 0-10V dimming controller. Refer to the dimming controller installation instructions for specific connection information.



- 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 mm<sup>2</sup>) or 18-10 AWG (0.82-5.26mm<sup>2</sup>) twist-on wire connectors. Properly ground power supply in accordance with National Electric Code (NEC) Article 600.



**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 below.

**NOTE:** For CSA approval, a disconnect/toggle switch of appropriate rating needs to be placed within 29.5 ft. (9 m) of the 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

Performance Data	Min	Typical	Max
Input Voltage (VAC)	90	100-277	305
Input Frequency (Hz)	-	50/60	-
Input Current (A)	-	-	1.1
Output Voltage (VDC)	23	-	25.5
Output Current (ADC)	-	-	3.3
Output Power (W)	-	80	-
Environmental Operating Temperature Range	-40°C	+25°C	+60°C*
Environmental Humidity (non-condensing)	10%	-	90%
Environmental Storage Temperature Range	-40°C	-	+85°C
Dimensions	9.5 in. x 1.7 in. x 1.2 in. (240 mm x 43 mm x 30 mm)		

\* Maximum case temperature is 85°C

Supports	Tetra Products	SKUs	Maximum Load per Power Supply	Remote Mounting Distance			
				18 AWG/ 0.82 mm <sup>2</sup>	16 AWG/ 1.31 mm <sup>2</sup>	14 AWG/ 2.08 mm <sup>2</sup>	12 AWG/ 3.31 mm <sup>2</sup>
Tetra PowerStrip DS	GEWHDSPS6, GEWWDSPS6-50K, GEWWDSPS6-41K, GEWWDSPS6	12 modules/ 16.5 ft. (5.03 m)	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m	
Tetra miniStrip DS	GEWHBDP6, GEWWBDP6-50K, GEWWBDP6-41K, GEWWBDP6	31 modules/ 31 ft. (9.45 m)	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m	
Tetra EdgeStrip	GEWHBIP2, GEWWBIP2-50K, GEWWBIP2-41K, GEWWBIP2	30 modules/ 30 ft. (9.15 m)	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m	
Tetra Contour LS	GEWHXNLA2-WH, GEBLXNLA2-BL, GEGLXNLA2-GL, GERDXNLA2-RD, GEWHXNAA2-WH, GEBLXNAA2-BL, GEGLXNAA2-GL, GERDXNAA2-RD	24 ft. (7.32 m)	30 ft./9.1 m	50 ft./15.2 m	80 ft./24.4 m	120 ft./36.6 m	
Tetra Contour	GEWHXNLE1, GEWWXNLE1, GEBLXNLE1, GEGLXNLE1, GERDXNLE1, GERCXNLE1, GEYAXNLE1	24 ft. (7.32 m)	30 ft./9.1 m	50 ft./15.2 m	80 ft./24.4 m	120 ft./36.6 m	

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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