GE
Lighting Solutions

Installation Guide

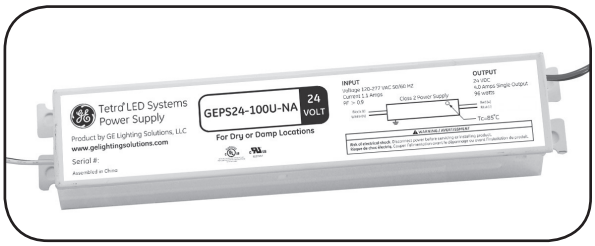
24 Volt

# Tetra® LED Systems Power Supply

(GEPS24-100U-NA)

## Power Supply Features

- Supports Tetra PowerStrip DS, miniStrip DS, Tetra EdgeStrip, Tetra Contour and Tetra Contour LS LED lighting systems
- UL Class 2 wiring per NEC Article 725
- Dry and damp location rated




STOP

## 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 (0.82 mm²)
- Follow all local codes.

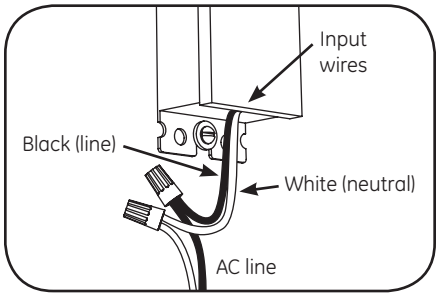
**RISQUES DE DÉCHARGES ÉLECTRIQUES**

- 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®.

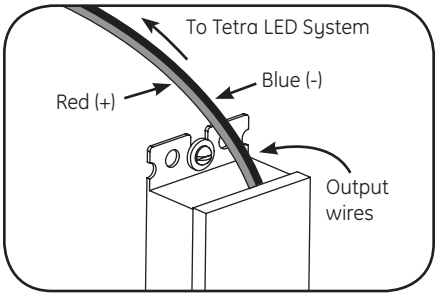
**RISQUES D'INCENDIE**

- 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 (0.82 mm²).
- Respectez tous les codes locaux.

## 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) or 18-10 AWG (0.82-5.26 mm²) twist-on wire connectors.




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

imagination at work

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

***NOTE:*** The grounding and bonding of the power supply and overall sign shall be done in accordance with National Electric Code (NEC) Article 600.

## Power Supply Specifications

| Performance Data | Min | Typical | Max |
|---|---|---|---|
| Input Voltage (VAC) | 108 | 120-277 | 305 |
| Input Frequency (Hz) | - | 50/60 | - |
| Input Current (A) | 0.35 | - | 1.1 |
| Output Voltage (VDC) | 23 | 24 | 25 |
| Output Current (ADC) | - | - | 4.0 |
| Output Power (W) | - | - | 96 |
| Environmental Operating Temperature Range | -40°C | +25°C | +55°C* |
| Environmental Humidity (non-condensing) | 0% | - | 95% |
| Environmental Storage Temperature Range | -40°C | - | +85°C |
| Dimensions | 9.5 in. x 1.7 in. x 1.2 in. (241 mm x 43.2 mm x 30.5 mm) | | |

*Maximum case temperature is 85°C

**GEPS24-100U-NA**

| Supports Tetra Products | SKUs | Rated Watts | Maximum Load per Power Supply | Remote Mounting Distance 18 AWG/ 0.82 mm² | 16 AWG/ 1.31 mm² | 14 AWG/ 2.08 mm² | 12 AWG/ 3.31 mm² |
|---|---|---|---|---|---|---|---|
| Tetra PowerStrip DS | GEWHDSPS6, GEWWDSPS6-50K, GEWWDSPS6-41K, GEWWDSPS6 | 6W/mod | 16 modules/ 22.0 ft. (6.71m) | 20 ft./6.1m | 25 ft./7.6m | 35 ft./10.6m | 40 ft./12.1m |
| Tetra miniStrip DS | GEWHBDP6, GEWWBDP6-50K, GEWWBDP6-41K, GEWWBDP6 | 2.2W/mod | 39 modules/ 39 ft. (11.89m) | 20 ft./6.1m | 25 ft./7.6m | 35 ft./10.6m | 40 ft./12.1m |
| Tetra EdgeStrip | GEWHBIP2, GEWWBIP2-50K, GEWWBIP2-41K, GEWWBIP2 | 2.4W/mod | 37 modules/ 37 ft. (11.28m) | 20 ft./6.1m | 25 ft./7.6m | 35 ft./10.6m | 40 ft./12.1m |
| Tetra Contour LS | GEWHXNLA2-WH, GEBLXNLA2-BL, GEGLXNLA2-GL, GERDXNLA2-RD, GEWHXNAA2-WH, GEBLXNAA2-BL, GEGLXNAA2-GL, GERDXNAA2-RD | 3.2W/ft. | 29 ft. (8.84m) | 30 ft./9.1m | 50 ft./15.2m | 80 ft./24.4m | 120 ft./36.6m |
| Tetra Contour | GEWHXNLE1, GEWWXNLE1, GEBLXNLE1, GEGLXNLE1, GERDXNLE1, GERCXNLE1, GEYAXNLE1 | 3.2W/ft. | 29 ft. (8.84m) | 30 ft./9.1m | 50 ft./15.2m | 80 ft./24.4m | 120 ft./36.6m |

Conforms to the following standards: