

# Select TX™ LED Systems Power Supply



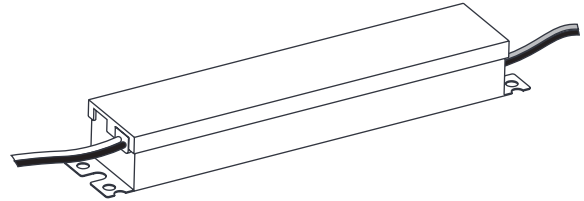
12 Volt

GEPS12SE-60U-NA (120-277 VAC input / 12 VDC output / 60W)

## Installation Guide

### Power Supply Features

- Supports Tall 12 VDC GE Select Channel Letters
- Dry and damp location rated
- Class 2 wiring per NEC Article 725 (SELV)
- IP66 rated: must be protected from direct exposure to weather



## 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 Select power supply.
- AC input connections shall be suitably enclosed. The power supply shall be enclosed or made inaccessible to users during normal use.

#### RISK OF FIRE

- Minimum 10 cm (4") to side and 2.5 cm (1") spacing in compartment surrounding component required.
- Application considerations potentially requiring additional spacing include high ambient temperature seen by the power supply, poor contact with a heat dissipating material, inadequate ventilation, or direct exposure to sun.
- Use only approved wire for input/output connection. Minimum size 18 AWG (0.82 mm<sup>2</sup>).
- 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 le bloc d'alimentation Tetra®.
- Les connexions d'entrée AC doivent être convenablement enfermées. Le bloc d'alimentation doit être enfermé ou rendu inaccessible aux utilisateurs lors d'une utilisation normale.

#### RISQUES D'INCENDIE

- Un espacement minimum de 10 cm (4 po) entre 2 blocs d'alimentation est requis ainsi qu'un espacement minimal de 2,5 cm (1 po) dans l'enceinte.
- Certains environnements pourraient requérir un espacement additionnel, tels qu'une température ambiante élevée, un mauvais contact avec une matière dissipatrice de chaleur, une ventilation inadéquate ou une exposition directe au soleil.
- N'utilisez que des fils approuvés pour les connexions d'entrée/de sortie. Taille minimum 18 AWG (0.82 mm<sup>2</sup>).
- Respectez tous les codes locaux.

### ⚠ CAUTION/ATTENTION

#### RISK OF INJURY

- While performing installations described, gloves, safety glasses or goggles should be worn.

#### RISQUE DE BLESSURE

- Lors de l'exécution des installations décrites, des gants, des lunettes de sécurité ou des lunettes de protection doivent être portées.

## Save These Instructions

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

## Prepare Electrical Wiring



### Electrical Requirements

- Limited to use in dry and damp locations.
- The suitability of rain enclosure shall be determined if intended for wet location.
- The grounding and bonding of the LED Driver shall be done in accordance with National Electric Code (NEC) Article 600.
- Follow all National Electric Codes (NEC) and local codes.

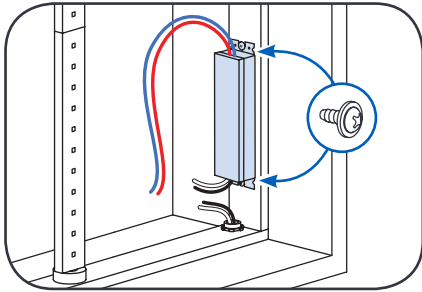
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

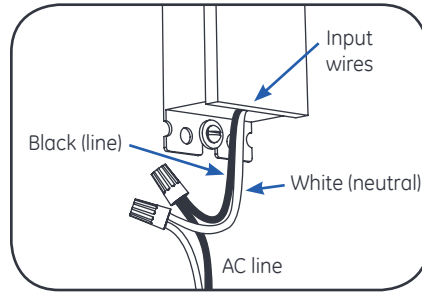
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## Power Supply Installation

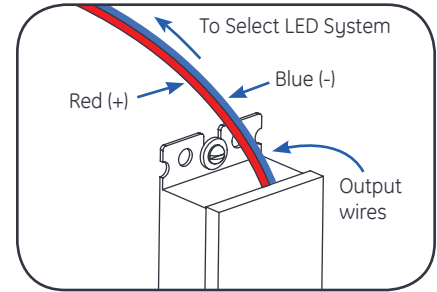


- 1 Mount the power supply. Mounting the power supply base directly to a thermally conductive installation surface can improve thermal performance.

**NOTE:** All electrical connections should be suitably protected from mechanical damage and the environment. Seal all connections exposed to water with electrical grade self-hardening silicone.



- 2 Connect the AC line to the black (line) and white (neutral) input wires of the power supply using suitable wire connectors.



- 3 Connect the supply wire that is attached to the Select 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.

When used with GE LED products, see specific LED product installation guide for power supply loading.

When used with other LED products, a minimum 10% power derating per power supply is recommended.

**NOTE:** For installation in Canada, a disconnect switch of appropriate rating needs to be placed within 29.5 feet (9 meters) of primary side of the power supply. The switch voltage rating shall not be less than the branch circuit voltage. 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.

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

## Power Supply Specifications

Performance Data	Min	Typical	Max
Input Voltage (VAC)	108	120-277	305
Input Frequency (Hz)	-	50/60	-
Input Current (A)	-	-	0.65
Output Voltage (VDC)	11.0	12.0	13.0
Output Current (ADC)	-	-	5.0
Output Power (W)	-	-	60
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

This product is intended to be used as a lamp control gear that is installed after the mains control switch.

Conforms to the following standards:



For the most up-to-date version of this installation guide, please visit [products.currentbyge.com/signage](https://products.currentbyge.com/signage)

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