Installation Guide

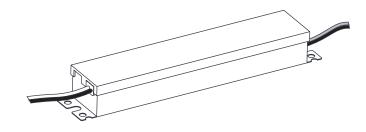


Tetra[®] LED Systems Power Supply

GEPS24-100U-NA (120-277 VAC input / 24 VDC output / 100W)

Power Supply Features

- Supports all 24 VDC Tetra Products
- Dry and Damp Locations Rated
- Class 2 Power Supply
- 120-277 VAC Input



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.
- 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 power supply spacing to other power supply or other heat producing component shall be at least 4" (101.6 mm) from side to side and 1" (25.4mm) from end to end.
- Use only approved wire for input/output connection. Minimum size 18 AWG (0.82 mm²).
- Follow all local codes.
- 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.

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 CA doivent être convenablement enfermées. Le bloc d'alimentation doit être enfermée ou rendue inaccessible aux utilisateurs pendant l'utilisation normale.

RISQUES D'INCENDIE

- L'espacement minimal du bloc d'alimentation par rapport à un autre bloc d'alimentation ou aux autres composants produisant de la chaleur doit être au moins 4" (101,6 mm) de chaque côté et 1" (25,4 mm) de bout en bout.
- N'utilisez que des fils approuvés pour les entrées/sorties de connexion. Taille minimum 18 AWG (0.82 mm²).
- Respectez tous les codes locaux.
- Certaines applications pourraient requérir un espacement additionnel, p. ex. une température ambiante élevée autour du bloc d'alimentation, un mauvais contact avec une matière dissipatrice de chaleur, une ventilation inadéquate ou une exposition directe au soleil.

A CAUTION/ATTENTION

RISQUES DE BLESSURE

RISK OF INJURY

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

Save These Instructions

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

Prepare Electrical Wiring

sécurité ou des lunettes de protection doivent être portées.

Lors de l'exécution des installations décrites, des gants, des lunettes de

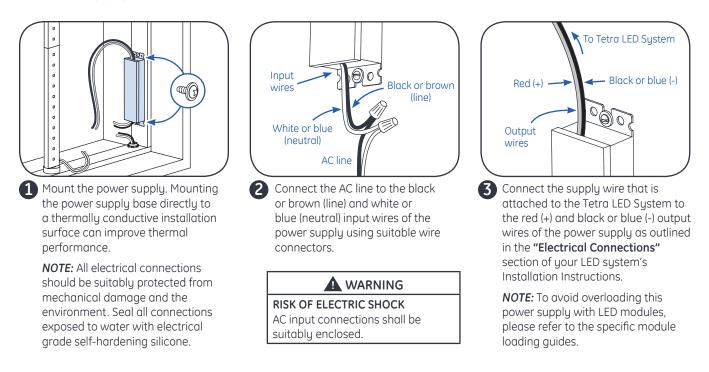


Electrical Requirements

- 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.



Power Supply Installation



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.

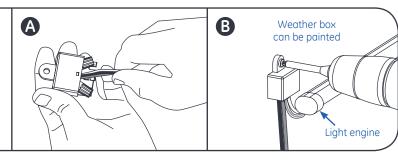
NOTE: When installing power supply, connect to the appropriate sized building breaker or disconnect device for line, neutral and ground connections, in accordance with National Electric Code (NEC) Article 600 and all local regulations.

OPTIONAL

A Weather Box (GEXNWB2) may be used to house and seal Class 2 connections.

A) Insert wire connectors into weather box. Fill with electrical grade silicone and close box.

B) Secure the weather box using a #6 or #8 (M2 or M3) screw.



Power Supply Specifications

Min	Typical	Max
108	120-277	305
-	50/60	-
0.35	-	1.1
-	-	20
0.9	-	_
23.0	24.0	25.0
-	-	4.0
-	-	96
-40°C	+25°C	+55°C*
0%	-	95%
-40°C	-	+85°C
IP66 rated: must be protected from direct exposure to the weather		
9.5 in. x 1.7 in. x 1.2 in. (240 mm x 43 mm x 30 mm)		
	108 - 0.35 - 0.9 23.0 - - -40°C 0% -40°C IP66 rated: must be	IDB I20-277 - 50/60 0.35 - - - 0.9 - 23.0 24.0 - - - - - - - - - - - - - - - - - - - - - - - - -40°C +25°C 0% - -40°C - IP66 rated: must be protected from direct exposure

*Maximum case temperature is 85°C

Troubleshooting

Symptom	Solution
All letters are OFF	 Recycle AC power, turn it off, then turn on again. If still off, check the power supply DC output voltage using a voltmeter. It should be nominally V. » If there is DC output, inspect and correct all DC wire damage/polarity issues; If no issue is found, replace the OFF-module string. » If there is no DC output, have a licensed electrician check the input AC voltage and if there is correct AC voltage, replace the power supply. » If there is no AC voltage, correct the upstream AC issue.
Some LEDs appear dim	 Ensure the overall length of the Tetra[®] LED System does not exceed the maximum load. Ensure the length of supply wire is equal to or below the recommended remote mounting distance.
Some of the letters are not illuminated	• Inspect and correct the wires of the non-illuminated letters for damage/polarity issues; If no issues are found, see the troubleshooting solution for "All letters are OFF."
Shadows	 Re-route supply wire and secure to the back of the can with electrical grade RTV silicone. Adjust wire connector orientation so that it does not cover any LEDs. Adjust LED layout to ensure uniformity of illumination of the face of the letter.

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.

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 https://products.currentbyge.com/sign-lighting



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