GE current GELP24-100U-GLX Immersion LED Refrigerated Display Lighting Installation Guide

Contents

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Product Information

The ImmersionTM LED Refrigerated Display Lighting is a product designed to provide efficient illumination for vertical and horizontal refrigerated display cases. The product has a 100W LED driver, GELP24-100U-GLX, and it

requires a 24V power supply. The product comes with an installation guide, DISP105, which provides detailed instructions on how to install and troubleshoot the product. The product has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

Product Usage Instructions

1. Read the installation guide completely and carefully before starting the installation process.
2. Prepare the electrical wiring according to the electrical requirements provided in the installation guide.
3. Connect the LED driver output and input as per the instructions provided in the installation guide.
4. Refer to the LED light bar installation instructions for LED light bar wiring configurations.
5. Follow the typical installation process as provided in the installation guide.
6. For remote mounting, use the appropriate supply wire as per the distance mentioned in the installation guide.
7. In case of any troubleshooting issues, refer to the troubleshooting section in the installation guide.

It is important to read and observe all cautions and warnings shown throughout the instructions for your safety.

For the latest North American install guides for your product go to: **https://products.gecurrent.com/sign-lighting/tetra-max**. For the latest European install guides for your product go to: **https://products.gecurrent.com/eu**.

FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions.

- Installation to be performed by factory-trained service personnel only.
- For use inside a commercial refrigeration case with packaged foods only.
- Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- Before installing, servicing or cleaning the unit, switch the power off at the service panel and follow appropriate lockout/tag out safety procedures

PREPARE ELECTRICAL WIRING

Electrical Requirements

- The power supply must be supplied with 120-277 VAC, 50/60 Hz, and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.
- Wiring must be 2 wire with ground and rated for 75°C (167°F).
- All wiring must be done to NEC or local electrical codes.

Grounding Instructions–Cable Direct

- This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and be connected to the equipment grounding terminal.

CAUTION

Risk of injury.
While performing installations described, gloves, safety glasses or goggles should be worn.

UL WARNING

Risk of electrical shock.
Disconnect power before servicing or installing the product. LED Retrofit Kit Installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

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

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.

Connect LED Driver – Output

- For retrofit, place the LED driver in the location where the ballast was formerly located.
- Make output (DC) connections as noted below:

Using the wiring diagram in step 3, connect the LED Driver output leads to the LED Light leads using wire connectors or other connection methods approved for low-temperature usage and solid conductors. **A**

For Retrofit:
Bundle and safely secure any unused wires by way of approved wire ties and wire connectors.

Connect LED Driver – Input

- Make input (AC) connections as noted below.
- The LED Driver is required to be reliably bonded to the protective ground conductor. **B**

Mount the LED Driver to a grounded metal portion of the door frame, connect the LED driver housing to an existing equipment grounding conductor, or run an equipment grounding conductor to the equipment grounding terminal. Using the wiring diagram in step 3, connect the original Line and neutral wires (or Line 1 and Line 2 wires for 277 maximum VAC) to the LED Driver leads using wire connectors or other connection methods approved for low-temperature usage and solid conductors. **C**

WARNING

Risk of electrical shock.
Ensure that all connection points are sealed for a damp location using the appropriate method per the NEC or local electrical code.

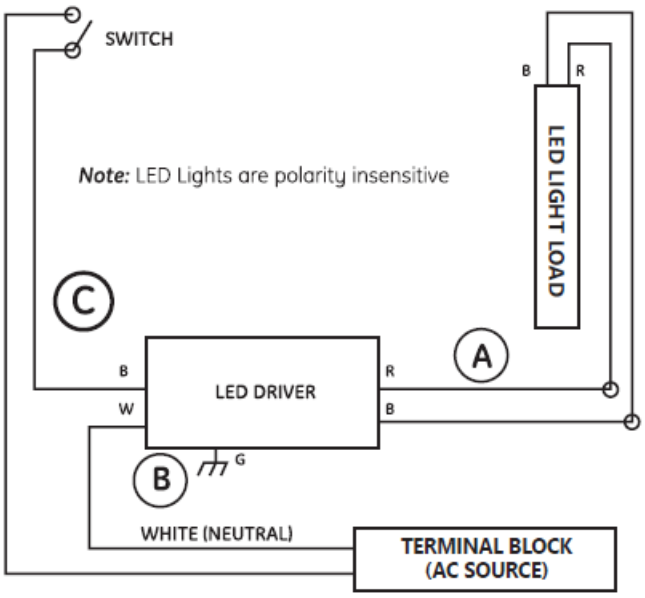
CAUTION

Risk of injury.
Do not overload the LED Driver, 60-watts maximum per driver. Do not exceed the LED light bar loading limits specified on the light bar installation instructions for a 60W driver.

Connection Configurations

For information on A, B, C, see Steps 1 and 2.
Refer to LED Light Bar installation instructions for LED light bar wiring configurations.

Typical Installation



Remote Mounting Distance

	18 AWG/0.82 mm2 Supply Wire	**16 AWG/1.31 mm2 Supply Wire**	**14 AWG/2.08 mm2 Supply Wire**	**12 AWG/3.31 mm2 Supply Wire**
100W Power Supply	20 ft./6.1 m	25 ft./7.6 m	35 ft./10.6 m	40 ft./12.1 m

Troubleshooting

Symptom	Solution
All LED lights are OFF	• The GELP24-100UGLX features a new built in output overload shutdown feature that a utomatically resets when the AC supply is removed and reapplied. So if all LED lights are off, first verify whether or not the output can be reset by first switching off then switching back on the AC supply. If the LED lights do not re-light, then proceed to the following solutions. • Check AC input connection and/or check circuit breaker. • Check wire connection(s) at the LED System and power supply for improper terminatio n(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the (+) wire of the LED light to the (+) wire of the power sup ply and the (-) wire of the LED light to the (-) wire of the power supply. • Ensure the overall LED load does not exceed the maximum load. If so, remove the excess load, and cycle the AC supply to reset the drivers built in overload protection.
Some LEDs appea r dim	• Ensure the length of supply wire is equal to or below the recommended remote mountin g distance.
Some of the LED li ghts are not illumin ated	• Check wire connection(s) at the LED light and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the (+) wire of the LED light to the (+) wire of the power sup ply and the (-) wire of the LED light to the (-) wire of the power supply.

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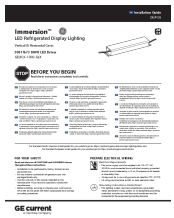
DISP105 (Rev 10/27/21)

Documents / Resources

	GE current GELP24-100U-GLX Immersion LED Refrigerated Display Lighting [pdf] Installat ion Guide GELP24-100U-GLX, DISP105, GELP24-100U-GLX LED Refrigerated Display Lighting, LED Re frigerated Display Lighting, Refrigerated Display Lighting, Display Lighting, GELP24-100U-GLX Immersion LED Refrigerated Display Lighting, Immersion LED Refrigerated Display Lighting, 93077673 100W LED Driver

References

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- Homepage | Current - GLI Brands

- Commercial Lighting and Lighting Controls | Current - GLI Brands
- Homepage | Current - GLI Brands
- TetraÂ® MAX Outdoor Lighting | Signage | Current