High Bay LED Light Fixture/Battery Backup
Instruction Manual

Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:

- Installation should only be conducted by a qualified electrician in accordance with NEC and any relevant local building codes.
- Risk of fire or electric shock. Fixture installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Be certain electrical power is off before and during installation and maintenance.
- Fixtures must be connected to a wiring system with an equipment–grounding conductor.
- Make sure the supply voltage is the same as the rated luminaire fixtures voltage.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or sharp objects. Suitable for damp locations.

Caution: Only use wattage as shown on fixture nameplate.

INSTALLATION

We strongly recommend only a licensed electrician install this product.
WARNING: Make sure that power is disconnected before installing.
This fixture must be mounted to a surface that can structurally support the load.

The mounting brackets are shipped installed on the fixture. Attach the brackets to a wall or ceiling following the steps below:

1. Turn off power at electrical panel.
2. Angle the surface mounts to fit a drill/wrench.
3. Locate surface mounting holes. Raise fixture into place and drive two mounting screws through the predrilled mounting holes.
4. Once the fixture is secure, connect wires as per color codes:
   Black = AC Line
   White = AC Neutral **Voltage:** 120-277V AC 50/60 Hz
   Green = Ground
   Ensure deutsch connector from wire harness is connected to the fixture before supplying power (If applicable).
5. Swing the lamp into final position. Tighten any bolts loosened on the mounting brackets.
6. Turn power on.

EMERGENCY BACKUP BALLAST OPERATION

During normal operation, AC power is supplied to the ballast through the backup micro inverter and the inverter charges the battery. Connecting the inverter wires (red and white) enables the emergency circuit and supplies power to the control/monitor circuit. The backup micro inverter detects AC input voltage (120-277V AC single phase) and automatically sets the output voltage during emergency operation. When AC power fails, the backup micro inverter automatically switches to emergency mode, keeping the load illuminated for a minimum of 90 minutes. When AC power is restored, the backup micro inverter returns to charge mode to recharge the battery. The backup micro inverter consists of a low battery voltage disconnect which is reset when AC power is restored. The unit can also detect an abnormal load condition (open or shorted load) during emergency mode operation and will protect the inverter from damage.

MAINTENANCE

Although no routine maintenance is required to keep the backup micro inverter functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated.
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. The lamp should operate at full illumination.
3. Conduct a 90-minute discharge test once a year. The lamp should operate at full illumination for at least 90 minutes.

REPLACEMENT PARTS

The GAU-EMG-48-160W-LED is designed to provide years of reliable lighting performance. Should the need for replacement parts arise, please contact Larson Electronics at the contact information below.

TROUBLESHOOTING

Refer to the guide below or contact the manufacturer if the device does not function properly.

- ➔ Is the correct line voltage being supplied?
- ➔ Is the light properly grounded?
- ➔ Are all connections tight and secure?

Should further information not covered by these instructions be required, please contact Larson Electronics at 1-800-369-6671 or sales@larsonelectronics.com for further assistance.

Please visit LarsonElectronics.com for **Warranty** and **Return** information.