

INSTRUCTIONS

Emergency Battery Backup Installation



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

EMHB30
EMHB60



Compatible Fixtures

EMHB30 - H17 / H17XL / HB15 / HB15XL
EMHB60 - H17XXL

Not Compatible with Sensors

IMPORTANT

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

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS

WARNING: AC power must be off before proceeding with assembly or installation of emergency LED driver.

IMPORTANT: An unswitched AC power source of 120VAC to 277VAC is required. This device is designed for use in fixtures listed for dry, damp and wet locations. Emergency LED driver should be charged for 24 hours every 6 months during storage.

CAUTION:

- Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Use with grounded UL Listed dry, damp or wet location rated fixtures.
- The Emergency LED Driver is intended for ordinary locations and for permanent installation.
- Battery is rechargeable Li-ion type and must be recycled or disposed of properly.
Do not use this emergency driver with accessory equipment other than recommended by manufacturer; failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel. Do not use this emergency driver for other than intended use.

IMPORTANT: When the LED indicator is illuminated the battery is in charge mode when AC power is applied. It is recommended and required by applicable code to test emergency LED driver to ensure proper function of the system; test every thirty (30) days to ensure the emergency driver is functioning by illuminating the light source. Conduct a ninety (90) minute discharge test one (1) time per year; LED light source should be illuminated for 90 minutes.

TESTING SYSTEM: The emergency battery requires a minimum charge of one (1) hour before testing the circuit. A full charge requires twenty-four (24) hours.

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INSTALLATION

1. DISCONNECT AC POWER FROM THE FIXTURE:

- Disconnect all power sources to the lighting fixture during installation or maintenance
- The AC driver must be sourced from the backup nano inverter
- Select a suitable location for the backup nano inverter and install such that its output leads can connect to the input leads of the AC driver

INSTALL THE BACKUP NANO INVERTER AND WIRING:

- Select a suitable location on the ceiling for hangable device
- Install upper and lower hooks to backup nano inverter and secure with set screws
- Install the backup nano inverter to the fixture and open inverter cover
- Put the wires through the waterproof connectors into the emergency driver, connect all wires and make sure all connections are in accordance with the wiring diagram from manufactures' installation manual (*fig. 8, fig. 9*)
- Connect the dimming wires from fixture to inverter
- Re-install the inverter cover carefully to avoid pinching the wires and cover tether
- Hang the backup nano inverter with fixture to the hangable device on the ceiling and attached the safety cable

NOTE: Strain-reliefs are not installed on the backup nano inverter at the factory. Strain-reliefs are provided in the parts bag.

2. CONNECT AC POWER:

- When connected to AC power, the charging indicator should illuminate to indicate that the battery is being charged
- A short-term discharge test may be conducted after the backup nano inverter has been charging for 1-hour, charge for 24-hours before conducting a long-term discharge test

OPERATION INSTRUCTIONS

Fig. 1

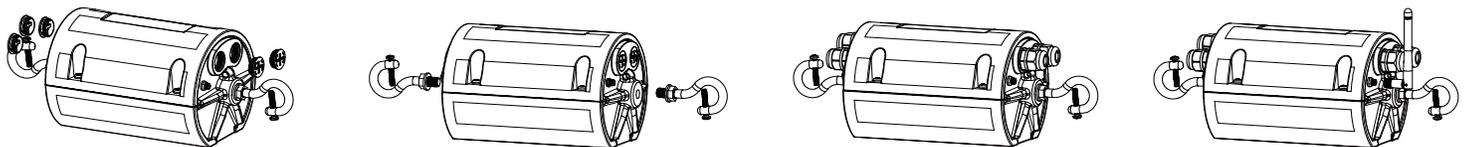


Fig. 2

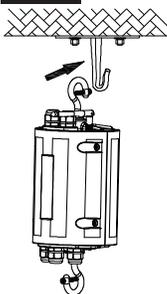


Fig. 3

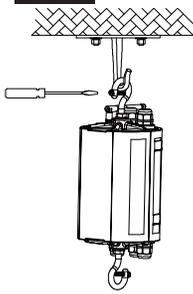


Fig. 4

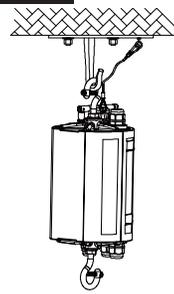


Fig. 5

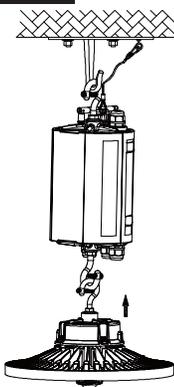


Fig. 6

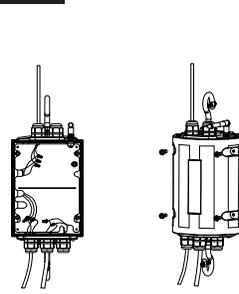
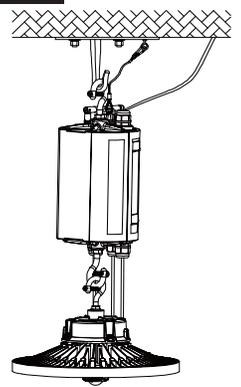


Fig. 7



NOTE: The maximum weight of lighting fixture should NOT EXCEED 44 lbs

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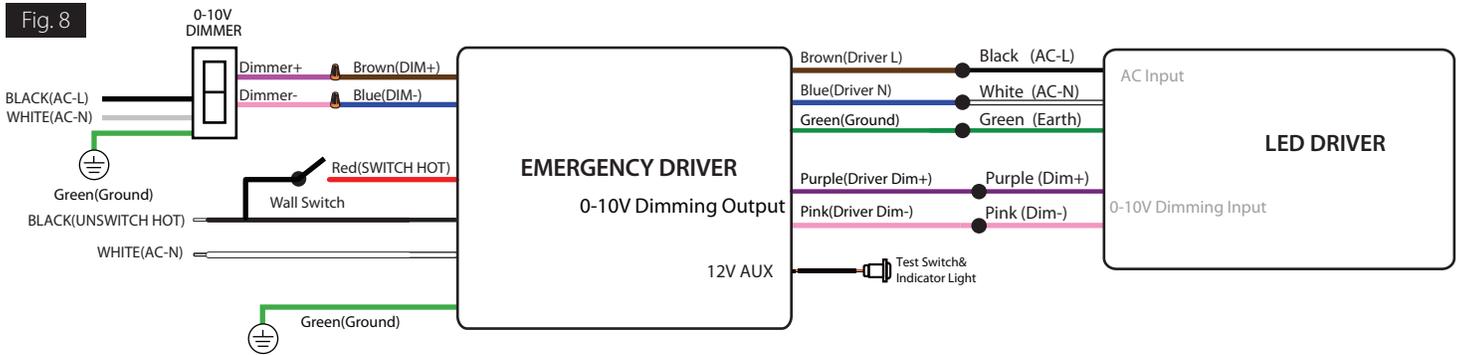
WIRING DIAGRAMS

IMPORTANT: Dimming wires must be connected to Fixture LED Driver for Emergency Back-up to function properly.

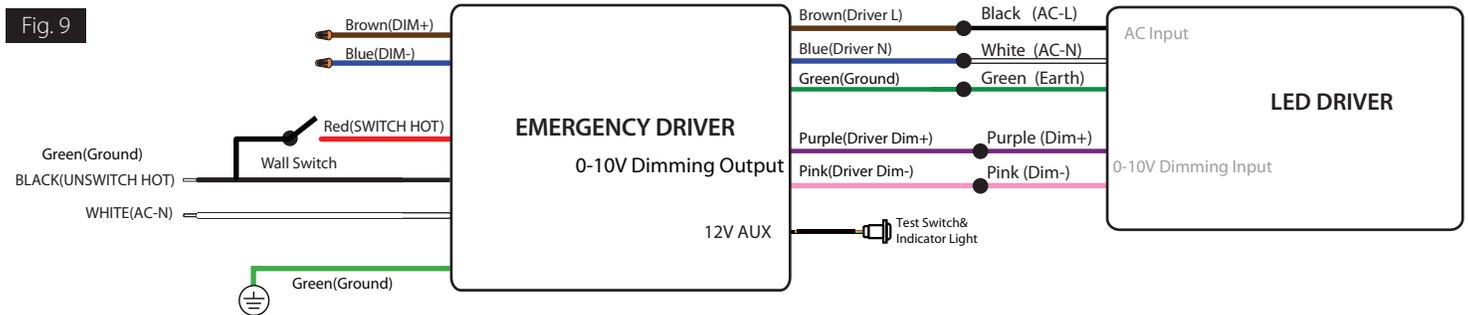
RECOMMENDATION: Emergency output power >20% LED Fixture output power.

FOR HIGH BAY (100-277VAC)

FOR HIGH BAY WITH WALL SWITCH (WITH DIMMER)



FOR HIGH BAY WITH WALL SWITCH (WITHOUT DIMMER)



REMOTE CONTROL USE

- Manual Testing Button (A): press and hold for a short duration test and release, then the Nano Inverter will return to charging mode.
- Monthly Testing Button (B): press and release. The Nano Inverter tests for 30s then returns to charging mode.
- Annual Testing Button (C): press and release. The Nano Inverter operates until battery is drained then returns to charging mode. This test should run for a minimum of 90 minutes.
- Indicator light is on while battery is charging or fully charged.
- Indicator light flashing:
 - 1) Battery failure (open circuit or short circuit)
 - 2) Load failure (over load or no load)

Auto self-test:

- Monthly self-test: Automatic self-test every month.
- Annual self-test: Automatic self-test every 12 months.

* When there is power shortage and battery fault found from Lightcloud Blue system after battery test, please power off the device and have a check before power on.

