

INSTRUCTIONS

HIGH BAY - EMERGENCY BATTERY BACKUP

RAB®

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

IMPORTANT

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

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.

IMPORTANT: 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 equipment is intended for ordinary locations and for permanent installation into one or more listed emergency luminaires.
- 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: Indicator (*LED light*) illuminated indicates battery 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; push the test switch every thirty (30) days to ensure the emergency driver is functioning by illuminating the light source. Conduct a ninety (90) minutes discharge test one (1) time per year; LED light source should be illuminated for 90 minutes.

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

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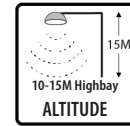
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KEY FEATURES

- Simple wiring: directly connect to LED driver AC input
- Constant power output 30W
- Universal input range, 120VAC-277VAC, 50/60Hz
- High output voltage DC 170V
- Optimized design for H17 High Bay fixture
- Protection: over-voltage, short-circuit, over-load, open-circuit
- Wireless remote control included for testing
- UL listed for factory and field installation
- CEC Title 20 and US DOE emergency efficiency



INSTALLATION

1. DISCONNECT AC POWER FROM THE FIXTURE:

- Disconnect all power sources to the lighting fixture and ensure they are locked out during the 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 the hook to backup nano inverter and fix it with the screws
- Install the ring bolt to the backup nano inverter and fix it with the screws
- Install the backup nano inverter to the lighting fixture with the screws, open the backup nano inverter cover and remove the plastic connectors and install the waterproof connectors
- Put the wires through the waterproof connector into the inside of the emergency driver, connect all wires and make sure all connections are in accordance with the manufactures' installation manual.
- Re-install the J-Box cover with screw
- Hang the backup nano inverter to the hangable device on the ceiling
- See instruction manual for typical installation and select appropriate mounting method

Note: Bushings are not installed on the backup nano inverter at the factory. Bushings provided in the kits bag.

2. LOCK UP THE COVER OF JUNCTION BOX & APPLY POWER:

- After completing the installation apply AC power
- At this point the power should be connected to the AC driver and the backup nano inverter, the charging indicator light should illuminate indicating the battery is charging
- 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

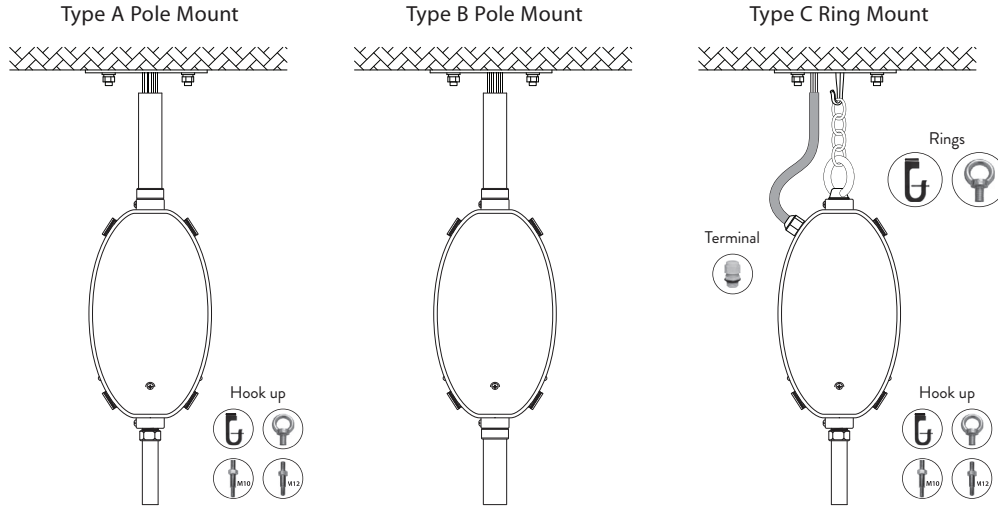
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OPERATION INSTRUCTIONS

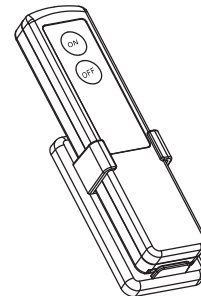


REMOTE CONTROL USE *(included)*

Test switch and indicator:

Red On : Charging mode
Red Off: Discharging mode

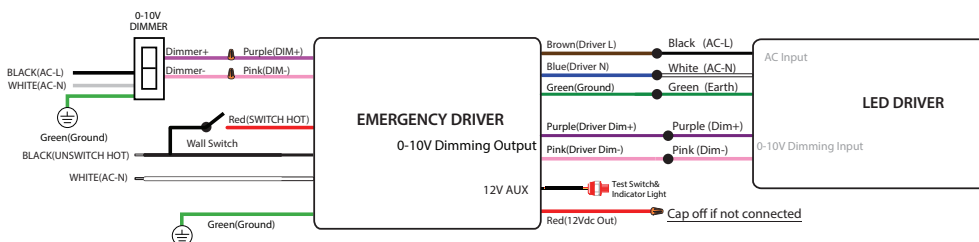
- Press the On button to test emergency function. The light will switch to its emergency lighting and the indicator light will turn Off. Press the OFF button, the light will recover to normal lighting. When the main supply (*unswitched-hot*) is off (*emergency mode*), press the OFF button to turn off emergency function.
- Remote must be pointed at the indicator light and be within a 45-degree angle to receive a signal/command. Remote requires two (2) AAA batteries to operate (*not included*).



WIRING DIAGRAMS

IMPORTANT: Dimming wires must be connected to Fixture LED Driver dimming wires for EM to function properly.
RECOMMENDATION: Emergency output power >20% output power of LED High Bay.

FOR HIGH BAY WITH SENSOR (*100-277VAC*)
FOR HIGH BAY WITH WALL SWITCH (*WITH DIMMER*)



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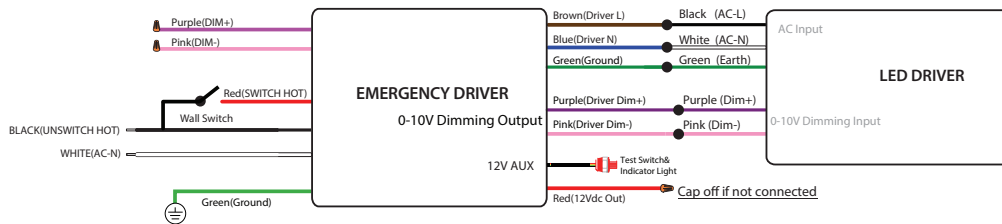
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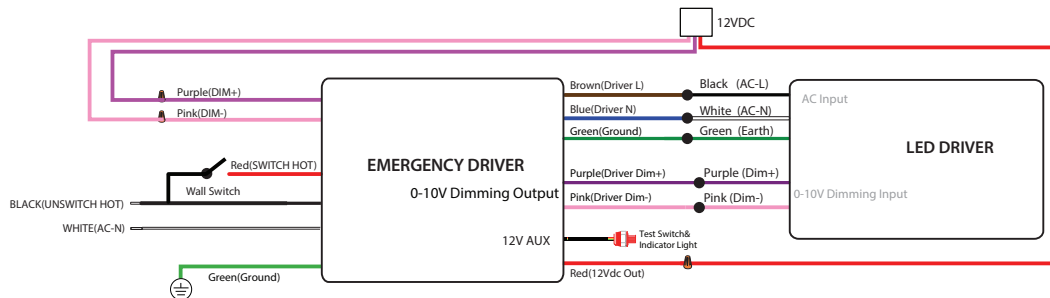
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WIRING DIAGRAMS (CONT'D)

FOR HIGHBAY WITH WALL SWITCH (*WITHOUT DIMMER*)



FOR HIGH BAY WITH 12VDC SENSOR (*THE CURRENT IS LESS THAN 30mA*)



Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.



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Tech Help Line
Call our experts: 888 722-1000

e-mail
Answered promptly - sales@rablighting.com

Free Lighting Layouts
Answered online or by request

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RAB WARRANTY: RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty