

EMERGENCY LED DRIVER

30W/40W

FEATURES

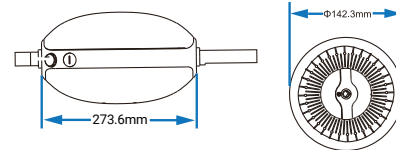
- Simple wiring: directly connect to LED driver AC input
- Constant power output 30W/40W
- Universal input range:100-347Vac, 50/60Hz
- High output voltage DC 170V
- Optimized design for UFO highbay fixture
- Protection:over-voltage,short-circuit,over-load,open-circuit
- Wireless remote control for emergency test
- UL listed for factory and field installation
- CEC title 20 and US DOE emergency efficiency



CERTIFICATES



DIMENSION



APPLICATIONS:



SPECIFICATIONS

Input Voltage	100-347V AC 50/60Hz	Test Switch&Charging Indicator Light	Remote Control
Output Voltage	170V DC	Battery	Li-ion battery
Input Current	≤200mA	Charging Time	≥24hours
Input Power	15W	Output Power	<input type="checkbox"/> 30W
Emergency Time	90 minutes		<input type="checkbox"/> 40W
Warranty	5 Years	Weight	3.3kg
Ambient Temp	5°C-50°C	Dimensions	273.6 x Ø142.3mm

WIRING DIAGRAM

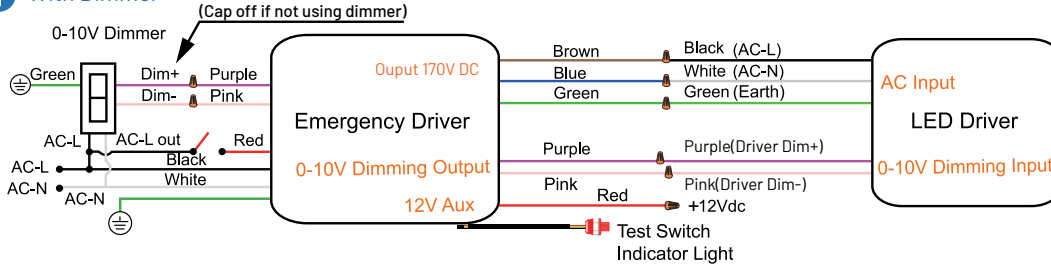


IMPORTANT

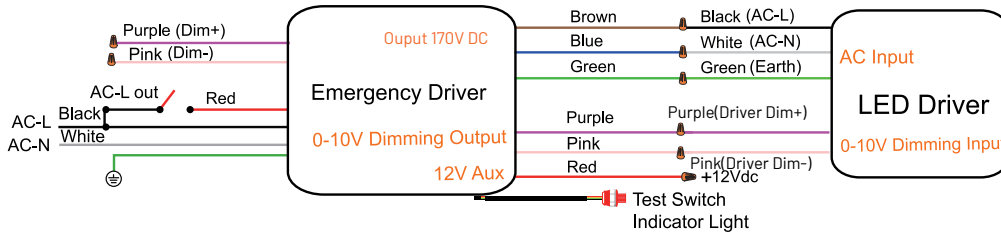
EM driver output dimming wires must connect to 0-10V dimming wires (DIM+, DIM-) of fixture LED driver. Will NOT operate if not connected.

NOTE: EMA-RM30D-UNV-170 for 0-10V dimmable LED FIXTURES with an input power less than 150W.
EMA-RH40D-UNV-170 for 0-10V dimmable LED FIXTURES with an input power less than 240W.

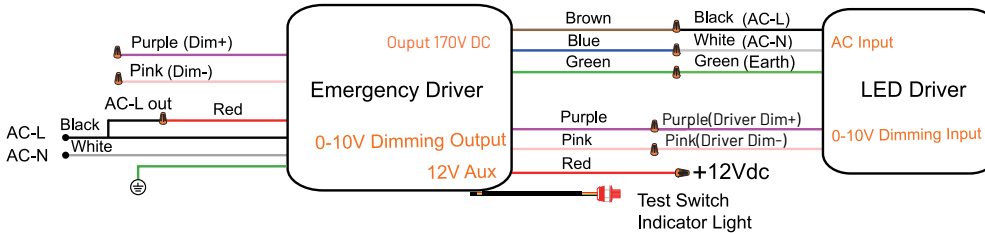
1 With Dimmer



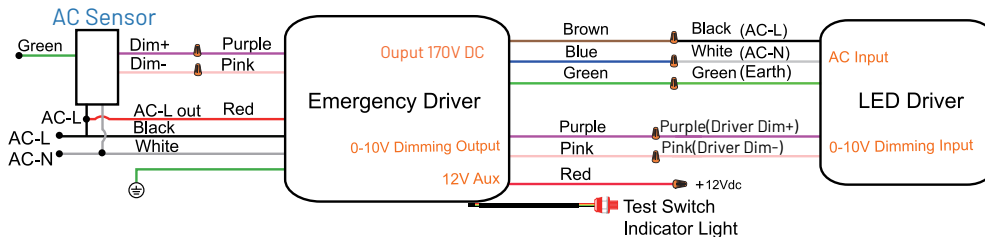
2 With Wall Switch(Without Dimmer)



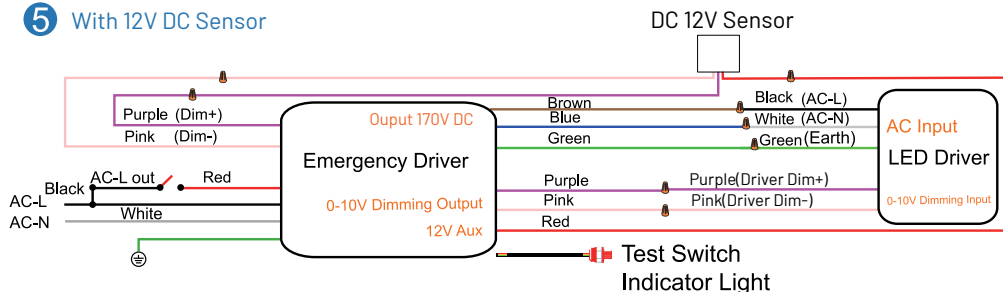
3 Without Wall Switch & Dimmer, 24hours lighting



4 With AC Sensor(100-277/347V AC)



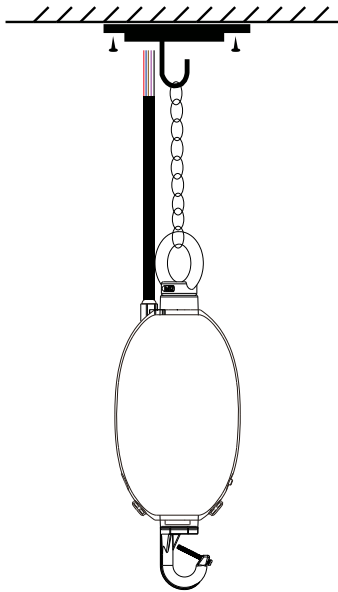
5 With 12V DC Sensor



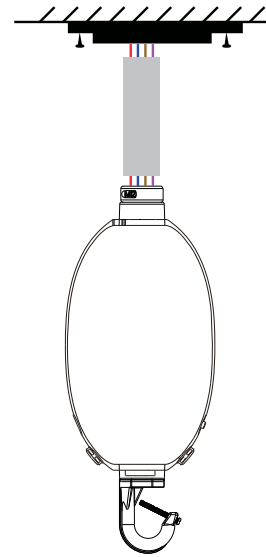
Note: Sensor wires must remove from LED Driver and reconnect to Emergency driver DC 12V wires for EM Driver to function properly

TYPICAL INSTALLATION

Chain or Cable Mount



1/2" Conduit Mount



See instruction manual, for typical installation and select appropriate mounting method.

Installation Steps



CAUTION: Before installing, make certain the AC power is off

Step#1: Notice

- (A): Disconnect all power sources to the lighting fixture and ensure they are locked out during installation and maintenance.
- (B): Select a suitable location on the ceiling for proper mounting of LED emergency driver (battery).

Step#2: Installation

- (A): Install ring /G-hook to top threaded hole of LED emergency driver (opposite the Red Indicator light) and secure it with screw.
- (B): Install G-hook/ring to the bottom hole (near Red Indicator light) and secure with screw.
- (C): Install LED emergency driver to highbay fixture with screw.
- (D): Open LED emergency driver cover and remove the plastic connectors and install the waterproof connectors (4pcs).

Step#3: Wiring

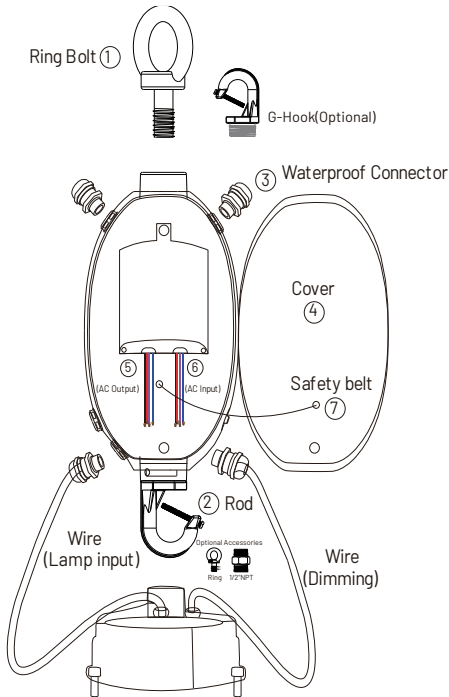
Pull all wires through the waterproof connectors into the cavity of emergency driver.

- (A): Connect the AC output wires (Brown, Blue and Green) of emergency driver with AC input wires of LED highbay fixture.
- (B): Connect the dimming output wires (Purple and Pink) of emergency driver with the dimming input wires of LED Driver.
- (C): Connect AC input wires (Black, White and Red) of emergency driver with AC main power cord.
- (D): Connect the input dimming wires (Purple, Pink) of emergency driver with dimming wires from dimmer.
- (E): Close and lock emergency driver and secure close using screw.
- (F): Hang the emergency led driver to suitable structure (not included, by others) located in the ceiling.

Note: Refer to LED emergency driver wiring diagram.

Step#4: Testing

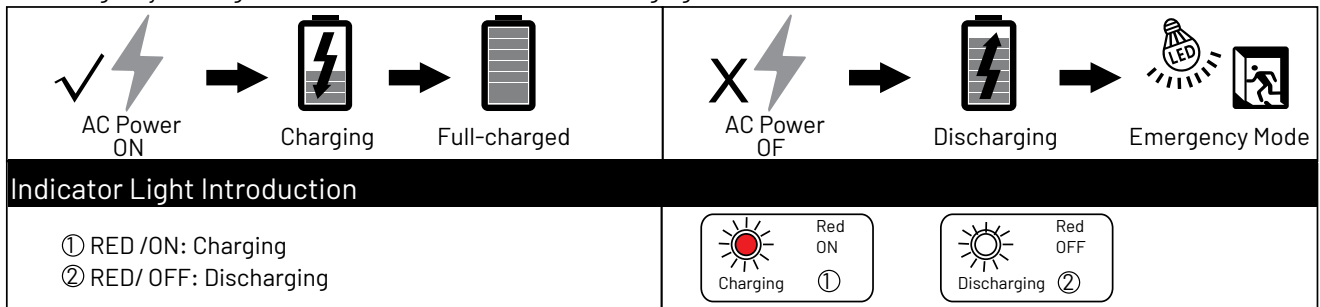
- After installation is complete, apply AC power.
- At this point, power should be connected to the fixture driver and the emergency LED driver. Charging indicator light should be illuminated, indicating the LED emergency driver (battery) is charging.
- A short-term discharge test may be conducted after the emergency LED driver has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.



OPERATION

AC Operation: AC power is present. The AC driver operates the LED load as designed. The emergency driver is charging in a standby mode. The charging indicator will be lit, showing that the battery is charging.

Emergency Operation: When the AC power goes out, the emergency driver detects the AC power outage and automatically switch to emergency mode. When red LED light is OFF, that means driver is discharging. When the AC power is restored, the emergency driver goes back to AC mode and starts recharging.



Remote Controller Introduction

- ON** Press the ON button to test emergency function. This light will switch to its emergency lighting mode and the indicator light will turn off. Press the OFF button, the light will revert to normal lighting mode.
- OFF** When main power supply is OFF (emergency mode), press the OFF button to turn off emergency function.

Press the OFF button
RED turns off
Emergency function is normal

Note: Remote must be pointed at the indicator light and be within a 45 degree angle to send signal to LED emergency driver. Remote controls requires two AAA batteries to operate. Batteries are not included.

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

CAUTION: RISK OF SHOCK—disconnect emergency and normal input power sources before servicing.

ASSEMBLY and FIELD INSTALLATION WIRING: WARNING: AC power must be off before proceeding with assembly or installation of emergency driver.

IMPORTANT: An unswitched AC power source is required (100-347 VAC, 50/60 Hz).

This device is designed for fixtures listed for dry, damp or wet locations.

IMPORTANT: Customers are advised to charge emergency LED driver 24 hours every 6 months during storage.

IMPORTANT: For EMA-RM30D-UNV-170, use with LED lamps less than 150W. When dimming to minimum the power should be less than 25W.

For EMA-RM40D-UNV-170, use with LED lamps less than 240W. When dimming to minimum the power should be less than 35W.

IMPORTANT: Make sure all connections are in accordance with the National Electrical Code or Canadian Electrical Code and any local regulations.

CAUTION: To reduce the risk of electric shock disconnect both normal and emergency sources within this unit before servicing any equipment connected to this unit.

CAUTION: Do not mount near gas or electric heaters.

CAUTION: Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

CAUTION: The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

CAUTION: Do not use this equipment for other than its intended use.

CAUTION: Use with grounded, UL Listed, dry or damp location rated fixtures. Case should also be grounded.

CAUTION: This product is for use in indoor fixtures only. Do NOT use near heated air handling outlets or hazardous locations.

Suitable for use in 5°C -50°C ambient temperatures

CAUTION: 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 the manufacturer.

Failure to follow this may cause an unsafe condition and will void warranty.

Servicing of this equipment should be performed by qualified personnel only

IMPORTANT: Illuminated Indicator (LED light) means battery is in charge mode when AC power is applied.

It is recommended and required by applicable code to test emergency function to ensure proper operation of the system; press the remote controller ON button every 30 days to ensure the emergency driver is functioning and LED light source is illuminated. Conduct a ninety minute (90) discharge test one time (1) per year; LED light source should be illuminated for a minimum of ninety minutes (90).

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.



THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM BATTERY.

THE BATTERY MUST BE RECYCLED OR DISPOSED OFF PROPERLY.

SAVE THESE INSTRUCTIONS