

▼ IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. CAUTION-To avoid electrical shock, do not mate unit connector until installation is complete and AC power is supplied to the unit.
2. CAUTION-This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the AC branch circuit and by disconnecting the unit connector.
3. CAUTION-This is a sealed unit. Components are not replaceable. Replace the entire unit when necessary.
4. CAUTION-Installation and servicing should be performed by qualified personnel only. Please disconnect before opening.
5. Do not use outdoor.
6. For use with grounded, UL Listed, damp location rated, indoor fixtures and case should be grounding.
7. The drivers are intended for ordinary locations and for permanent installation into one or more listed emergency luminaires.
8. This equipment has not been investigated for use in an air-handling fixture.
9. Do not for use in heated air outlets or hazardous locations.
10. The LED emergency driver requires an unswitched AC power source of 100-277 volts. Properly cap the unused AC lead.
11. Do not mount near gas or electric heaters.
12. The LED emergency driver will supply 54VDC output at the individual rated specification for 90 minutes. See individual units for output specifications.
13. When the red indicator flashes or off, the emergency power supply is abnormal.
14. For use in 0°C minimum, 50°C maximum ambient temperatures.
15. The use of accessory of LED emergency driver not recommended by the manufacturer may cause an unsafe condition.
16. Install in accordance with the National Electrical Code and local regulations.
17. Lighting fixture manufacturers, electricians, and end users need to ensure product system compatibility before final installation.
18. LED emergency driver and indicator should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel. Indicator light should be mounted where can be seen.
19. CAUTION- LED emergency driver only uses for LED lighting. Do not use this LED emergency driver for other than its intended use.
20. The weight of the LED emergency driver should be considered before installation.

Installation of this emergency LED driver will vary based on the luminaire type, however, generally follow these steps:

DETERMINE SUITABILITY

Ensure the LED load's rated power is equal or greater than the power output of this emergency LED driver.

Determine per "Reported Date" efficacy shown in lumens per watt (lm/W)

Multiply lumens per watt by emergency driver rated output.

Refer to table below for the wattage of the specific model to be used in the luminaires.



Output Power (Constant)
8Watts

Lumens In Emergency Mode=Lumens per watt of Fixture*Output Power of LED Emergency Driver

$$\underline{\hspace{2cm}} \text{ (Lumens)} = \underline{\hspace{2cm}} \text{ (lm/W)} * \underline{\hspace{2cm}} \text{ 8 (W)}$$

Using the results of this calculation and industry standard lighting design tools, calculate the anticipated illumination levels in the path of egress.

SAVE THESE INSTRUCTIONS



This product contains a rechargeable LiFePo4 battery.

THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY TO PREVENT FIRE.

INSTALLATION INSTRUCTIONS



CAUTION: Before installing, make certain the A.C. power is off and the LED lamp emergency backup unit connector is disconnected.

NOTE : Make sure that the necessary branch circuit wiring is available. An unswitched source of power is required. The unswitched and switched power source must be fed from the same branch circuit.

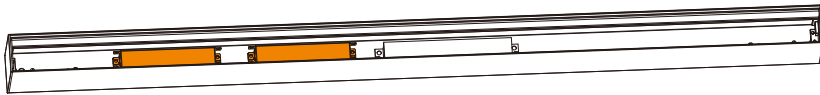
OPERATION

During normal operation, AC power is supplied to the AC driver through the LED emergency driver and charged the battery. The AC input line voltage (100-277V AC) of LED emergency driver automatically sets the output voltage during emergency mode.

When AC power fails, the LED emergency driver automatically switches to emergency mode, keeping the load illuminated for a minimum of 90 minutes. When AC power is restored, the LED emergency driver returns to charging mode. The LED emergency driver consists of a low-battery voltage disconnect which is reset when AC power is restored.

Mounting

Mount the control board and battery pack inside the LED luminaire, then connect together and wire.

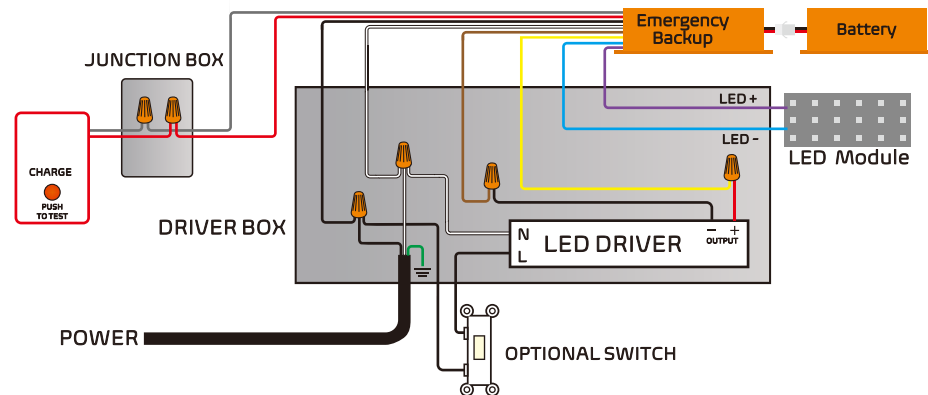


WIRING THE EMERGENCY DRIVER

Select the appropriate wiring diagram to connect the emergency driver to the AC driver and LED load. Make sure all connections are in accordance with the National Electrical Code and any local regulations. After installation is complete, supply AC power to the emergency driver.

Wiring diagram for 8W LED emergency driver

Compatible for LED luminaire (≤100W) that driver's output is able to do wiring



JOIN CONNECTOR & APPLY POWER

After installation is completed, join the LED emergency driver's connector and apply AC power. At this point, power should be connected to both the AC driver and the LED emergency driver. The charging indicator light should be illuminated indicating the battery is charging. At short-term discharge test may be conducted after the LED emergency driver has been charging for 2 hours. Please charge for 24 hours before conducting a long term discharge test. Refer to operation.

TEST SWITCH INDICATOR STATUS

LED Indicators Status	EM Driver Status	Method
1 Red ON 1 times /S	Battery abnormal	Check the battery plug (male/female) is properly connected or replace battery
2 Red ON 3 times /S	PCB abnormal	Hold for 10s to reset/reboot or replace driver
3 Red ON 3S /6S	Output power abnormal	Confirm lighting loads ≤100W Check the wiring of purple and blue
4 Red ON 0.2S/6S	Lack of electricity, recharges automatically for MAX 2 hours	Wait for the battery to fully charge first, observe for up to 6 hours, and it will switch to another mode.
5 None. LEDs OFF	Power cut, Detection and emergency mode	Check the black and white AC wires of the emergency driver, or enter the emergency mode.
6 Red ON 5.8S/6S	On charge	Normal
7 Always Red ON	Battery Fully Charge	Normal
8 Luminaire OFF	Wiring Problem	Check the yellow and brown wires, or the black and white AC wires of the luminaire

TESTING OPERATION

Automatic Detection Modes	
Power-On Self-Test	Trigger: Upon power connection Duration: Max. 2 minutes
Monthly Auto-Test	Trigger: Day 30 (after light OFF + 6-hour delay) Duration: 35 seconds
Semi-Annual Auto-Test	Trigger: Day 180 (after light OFF + 6-hour delay) Duration: 30 minutes
Annual Auto-Test	Trigger: Day 365 (after light OFF + 6-hour delay) Duration: 90 minutes

Manual Button Test Operations	
Single Press (1x)	Action: Initiates 35-second self-test
Double Press (2x)	Action: Initiates 30-minute self-test
Triple Press (3x)	Action: Initiates 90-minute self-test
Long Press for 3 seconds	Action: Cancels ongoing self-test
Long Press for 10 seconds	Action: Forces system reset & reboot

Key Notes:

All time-based tests initiate 6 hours after the fixture is turned OFF;
Test cycles are calculated from the last power-on date;
"Day 30/180/365" refers to cumulative operational days.

Safety Notice:

» Interrupting tests may require manual restart of the detection cycle.