



EMERGENCY LIGHTING PRODUCTS

# EMERGENCY LED DRIVER INSTALLATION AND OPERATING INSTRUCTIONS

ELP05-UNV-K-DP  
ELP12-UNV-K-DP

For Use with Hatch LED Module Included in Kit

**BEFORE BEGINNING INSTALLATION, READ THESE IMPORTANT SAFETY INSTRUCTIONS**

## IMPORTANT SAFEGUARDS

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

**WARNING:** Risk of fire or electric shock. Fixture wiring and electrical parts may be damaged when drilling for installation of LED Emergency Driver. Check for enclosed wiring and components.

**WARNING:** Risk of fire or electric shock. The LED Emergency Driver installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation; contact a qualified electrician.

**WARNING:** Risk of fire or electric shock. The LED Emergency Driver is only for use with surface mount or recessed Type IC or Non-IC products listed to UL Standards. Suitable for use in damp locations and plenum spaces. Not for use in heated air outlets or hazardous locations.

**WARNING:** Risk of fire or electric shock. Do not alter, relocate or remove wiring, lamp holders, power supply or any other electrical component.

**WARNING:** To prevent wiring damage and abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

**WARNING:** Do not make or alter any open holes in the wiring enclosure or electrical component enclosure during installation. Only the open holes indicated in the instructions may be added or altered as a result of installation. Do not leave any other open holes in the wiring enclosure or electrical component enclosure during installation.

**CAUTION:** Before installing, make certain the AC power to the fixture is off.

**CAUTION:** Confirm there is 120-277V at the fixture before beginning installation.

**CAUTION:** To prevent electrical shock, only mate the battery connector after the installation is complete and before the AC power to the fixture is back on.

**CAUTION:** This fixture provides more than one power supply output source. To prevent electrical shock, disconnect both normal and emergency sources by turning off the AC branch circuit and disconnecting the battery connector.

**CAUTION:** Do not look directly at the LED light source for extended periods of time to prevent harm to eyes.

**CAUTION:** Battery is not serviceable. Replace entire battery module when necessary.

**CAUTION:** The Emergency Driver module is a sealed unit. Components are not replaceable. Replace entire unit when necessary.

**CAUTION:** This Emergency LED Driver requires an unswitched AC power source of 120-277V, 50/60 Hz. The AC LED driver **MUST** be on the same branch circuit as the Emergency LED driver.

**CAUTION:** Verify that the LED load requirements match/are compatible with the emergency driver selected.

**CAUTION:** Do not use outdoors.

**CAUTION:** Do not mount near gas or electric heaters.

**CAUTION:** Install in accordance with the National Electrical Code and local regulations

**CAUTION:** Do not mount in locations or at heights in which the emergency driver could be tampered with by unauthorized personnel.

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

**CAUTION:** Do not use accessory equipment not recommended by the manufacturer as this may cause an unsafe condition.

**CAUTION:** Use with grounded, UL Listed, damp location rated fixtures. Emergency Driver case must be grounded.

**CAUTION:** The equipment is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.

The following are included:

PARTS	QUANTITY
LED Emergency Driver	1
90+ Minute Battery Pack	1
LED Module	1
Test Button	1
Hardware (Tek Screws)	6
Installation Guide	1
Luminaire Modification Label	1
Screw Wire Connectors	3
Wall Plate	1
Wall Plate Screws	2



**Note:** Installation requires application of the Luminaire Modification Label provided in your kit, as per UL. This label states: "This equipment has more than one connection point." This label must be applied to the fixture housing during installation.

# EMERGENCY LED DRIVER: INSTALLATION AND OPERATING INSTRUCTIONS

## Calculating Lumen Output During Emergency Operation

Lumen output of a lighting fixture using the LED module included with the kit can be easily calculated based on the emergency driver output power:

Part Number	Rated Output Power	Nominal Lumen Output*
ELP05-UNV-K	4.6W	600
ELP12-UNV-K	10.6W	1380

\*Nominal lumen output based on included Hatch LED module efficacy of 130 lumens/watt.

NOTE: Verification of these operating traits does not constitute a code-compliant emergency egress system. While the ELP-K Series has been found compliant with the requirements of UL 924, it is still the responsibility of the Designer/Specifier to assume appropriate light levels are achieved during emergency operation of the luminaire in accordance with Federal, State and Local municipal code regarding path of Egress Illumination.

## Determining Adequacy of Means-of-Egress Lighting Levels

Follow industry standards by utilizing available .ies files and lighting design software for your dedicated emergency luminaires with the above calculated lumens and validate your as-installed plans in accordance with the applicable life safety codes governing your project.

## INSTALLATION

### Before beginning installation, verify the following:

- a. Read and understand all warnings and notes stated on page 1 before proceeding with installation.
- b. Verify the contents of the LED Emergency Driver installation kit contain the parts listed on page 1.
- c. If not using the included LED module, make sure the emergency driver characteristics match those of the fixture it is intended for installation with:
  - Verify that the existing LED driver is Class 2 compliant per the driver manufacturer specifications.
  - The fixture's driver must have an output power equal to or greater than the intended emergency driver.
  - The fixture's LED load voltage must be between 12-39VDC.
- d. Install in accordance with national and local electrical codes.

### Mounting

Hatch ELP emergency driver kits provide maximum installation flexibility. In some applications both the emergency driver and the battery can fit in the existing driver compartment or wire-way. In other applications one or more dimensions in the driver compartment or wire-way may prevent mounting both emergency driver and battery module within the fixture. The battery module can be mounted adjacent to or on top of the fixture. Once mounted, a small knockout or hole in the top of the fixture can be used to safely feed the battery cable into the fixture's driver compartment. Determine and appropriate location for the Emergency LED Module on the fixture to provide maximum delivered light downward. The LED Module should not be located directly behind any metal work or existing lamps in the fixture. Attach the Emergency LED Module to the fixture using (2) 8-18x1/2" Philips Pan Head Self-Drilling Tek Screws. Do not connect the battery connector to the driver until after power is applied. The test switch can be installed in any convenient location either within or near the fixture. For installation within the fixture, a 1/2" hole is required. Mount the test switch in a location that is visible. For installation adjacent to the fixture, a pre-drilled wall plate is included in the kit.

For remote mounting of the emergency driver, the maximum recommended mounting distance is listed below. Remote mounting may result in power loss at the load, reducing the total lumen output.

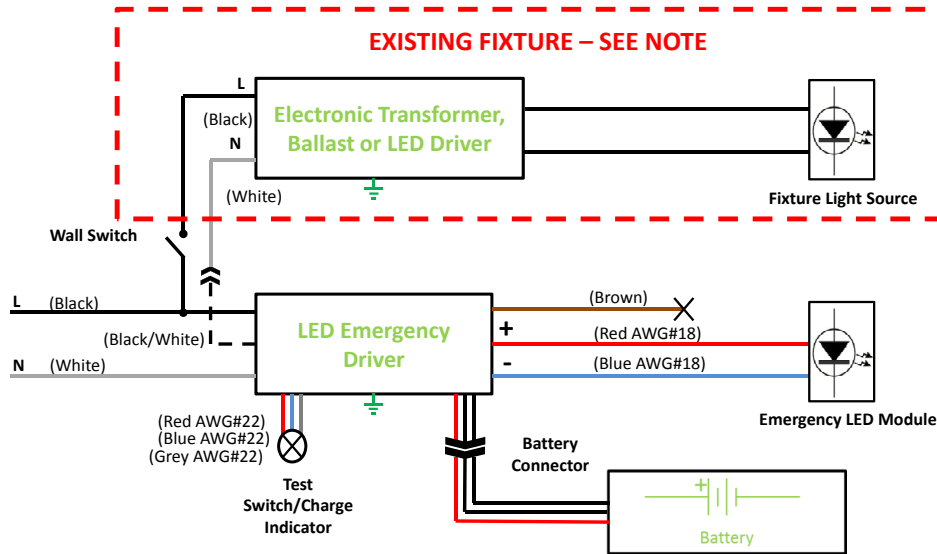
Part Number	Rated Output Power	Maximum Mounting Distance
ELP05-UNV-K	5W	18 ft
ELP12-UNV-K	12W	24 ft

# EMERGENCY LED DRIVER: INSTALLATION AND OPERATING INSTRUCTIONS

## Wiring

Connect wires per wiring diagram below according to application. Do not mate battery connector until all wiring is complete and power is restored. Wiring diagram for typical application that uses the included LED module is seen below. For alternate application wiring diagrams see Hatch website at [www.hatchlighting.com/led-emergency-drivers](http://www.hatchlighting.com/led-emergency-drivers).

NOTE: Emergency driver housing must be grounded.



NOTE: Existing fixture and light source can be LED, fluorescent, halogen, HID or LED tube.

## WIRING DIAGRAM - TYPICAL APPLICATION

## OPERATION

**Normal Mode:** AC power is present. The AC driver operates the LED module as designed. The emergency pack is charging in a standby mode. The test button will be illuminated red, showing that AC power is present.

**Emergency Mode:** In the event of a power failure, the LED emergency driver switches to emergency mode and operates the LED module at the rated emergency driver output power level for a minimum of 90 minutes.

### Testing Procedures

Prior to initial testing, allow unit to charge one hour. For 90 minute test, allow unit to charge for 24 hours.

- a. Press the test button to disconnect the power to the AC driver and switch the system to Emergency Mode. Release the test button to return to Normal Mode. Switch off the circuit breaker to simulate a full power outage.
- b. NFPA 101, Life Safety Code outlines the following testing schedule:
  - i. Monthly: Ensure that the test button light is illuminated. Conduct a 30 second discharge test by depressing the test button for 30 seconds. The LED module should operate at rated output.
  - ii. Annually: Ensure that the test button is illuminated. Conduct a full 90-minute discharge test. The unit should operate as intended for the duration of the test.
  - iii. Written records of the testing shall be kept by the owner for inspection by the authority having jurisdiction.

### Luminaire Modification Label

- a. Make sure to adhere luminaire modification label to the fixture where it is easily visible to anyone servicing the fixture in the future.