

ISI-EPC-2

UL924 Emergency Power Control



Inverter Systems, Inc.

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Emergency Power Control for Switched Loads



UL 924 Listed
Self-Testing
Self-Diagnostic



LED
Compatible



5 Year
Warranty



APPLICATION

In the past, emergency lights were kept on 24 hours a day to meet life safety codes. Now, you can use a UL 924 listed **Emergency Power Control, Model EPC-2**, to convert normal light fixtures into approved emergency lights. The **EPC-2** saves energy and money while ensuring compliance with both life safety and energy codes.

During normal operation, the same switch, occupancy sensor, relay, or lighting control can switch normal and emergency fixtures on and off simultaneously.

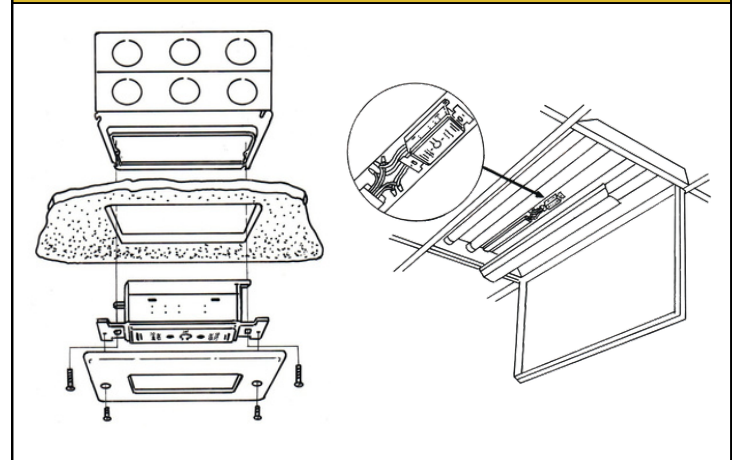
During a utility power interruption, the **EPC-2** automatically bypasses the normal lighting controls, turning the emergency lights ON, regardless of switch position.

The **EPC-2** is ceiling or wall mounted in a junction box with a single gang plaster ring and is usually located in the area where the emergency fixtures are installed.

FEATURES

- Unique, Patented Automatic Diagnostic When the room switch is turned off, the **EPC-2** will run a 2.5 self-test routine, verifying that the emergency power source was available and that the **EPC-2**, ballast, and lamp(s) are all functioning correctly. This feature eliminates the need for time-consuming and costly manual monthly testing and is approved for this purpose. This also allows the unit to be installed in remote or inaccessible locations, because the unit does not rely on access to its manual test switch.
- Fire Alarm, Remote Test
- Utility & Emergency Power Indicator LEDs
- Slim, attractive flush mount profile allows easy access to manual test switch and LED's.

MOUNTING



ORDERING GUIDE: ISI-EPC-2

SPECIFICATIONS

- Sensing Input: 120-277 VAC
- Load Rating: 120-277 VAC (20 A)
- Ballast Load Rating: 20A (120-277 V)
- Incandescent Load: 1200w (120 V) / 1500w (277 V)
- Warranty: 5 Year Replacement Warranty
- Mounting: 4-11/16" Junction Box w/ Single Gang Plaster
- Rating: UL94-5VA
- Shipping Weight: Color: 12 oz. / White
- Temperature: 32-140°F (0-60°C)
- Flush Mounted Size: Single Gang Size
- Body Size: 1.7" x 3" x 12" (W x H x D)

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The diagram illustrates the electrical connections for a lighting control system. It features two main panels: a **NORMAL PANEL** and an **EMERGENCY PANEL**.

- Normal Panel:** Receives **Normal Utility Power**. It is connected to a **CONTROL DEVICE** (Switch, Sensor, etc.) and an **EPC-2** unit. The **CONTROL DEVICE** is also connected to **REGULAR ROOM LIGHTS**. The **EPC-2** unit is connected to **DESIGNATED EMERGENCY LIGHTS**.
- Emergency Panel:** Receives **Emergency Power Source Neutral Not Shown** through a **UL 1008 Transfer Switch Or Equivalent**. It is connected to the **EPC-2** unit and two **EPC-2 CONTROL** units (indicated by dashed boxes).

The diagram uses standard electrical symbols for switches, breakers, and power lines, with break symbols (//) indicating where the circuit continues.

The diagram illustrates the wiring for a fire alarm system. It features three main components: an Emergency Panel or Inverter on the left, a Red Fire Alarm Jumper in the center, and a Normal Panel on the right. The Emergency Panel is connected to an Emergency Hot line (20A) and an Emergency Neutral line. The Normal Panel is connected to a Normal Hot line (20A) and a Normal Neutral line. The Fire Alarm Jumper has several terminals: EM POWER, TEST, and UTILITY POWER. Wires connect these terminals to the panels: #6 BLUE from Emergency Hot to EM POWER, #5 YELLOW from Emergency Light to EM POWER, #4 WHITE/BLUE from Emergency Neutral to EM POWER, #1 BLACK from Normal Hot to UTILITY POWER, #2 RED from TEST to a switch, #3 WHITE from the switch to the Normal Light (optional), and a common line from the switch to the Normal Neutral. A note indicates that the Emergency Light is also called N/E Light or Normal/Emergency Light by many specifiers. A legend specifies that the asterisk (*) denotes a Relay Panel, Power Pack, Sensor, or other optional component.

20A

EMERGENCY HOT

#6 BLUE

EMERGENCY PANEL OR INVERTER

Emergency Light

#5 YELLOW

#4 WHITE/BLUE

EMERGENCY NEUTRAL

EM POWER

TEST

UTILITY POWER

#1 BLACK

NORMAL HOT

#2 RED

#3 WHITE

Normal Light (optional)

NORMAL NEUTRAL

NORMAL PANEL

20A

Note: Emergency Light is also called N/E Light or Normal/Emergency Light by many specifiers

Red Fire Alarm Jumper (see

* Relay Panel, Power Pack, Sensor, or other (optional)

- Installation Sheet
- FAQ Sheet
- Alternative Wiring Sheet
- Terms & Conditions / Warranty Information
- Fire Alarm Tie-In/Override

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Specifications subject to change without warning.