



PRODUCT DESCRIPTION

The ISD-420-EM-B Self-Diagnostic Fluorescent Emergency Ballast allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the ISD-420-EM-B switches to the emergency mode and operates one of the existing lamps for 90 minutes. The unit contains a battery, charger, and inverter circuit in a single can and is designed for installation in the wireway. The ISD-420-EM-B can be used with 10W to 57W 4-pin compact fluorescent lamps, with an initial output of up to 1100 lumens for one lamp, and features lamp selector leads for optimizing light output for designated lamp types. The ISD-420-EM-B will self-test for thirty seconds monthly and for ninety minutes annually and will diagnose potential problems within the light fixture. If problems are encountered, the unit will specify failure of the battery, charge, lamp, or inverter by means of a flashing red indicator. The dual color LED indicator is lit red when charging and lit green when ready. The ISD-420-EM-B utilizes AC output to ensure compatibility with new lamp technologies and is suitable for use in damp locations and in enclosed and gasketed fixtures.

TECHNICAL SPECIFICATIONS

| | |
|----------------------|--|
| Input Voltage | 110-277V, 50-60Hz |
| Input Wattage | 3.5 Watts |
| Lamps Operated | 10W-57W 4-Pin Rapid Start Compact Lamps including Twin, Triple, Quad Tube, 2D & Straight |
| Emergency Operation | (1) 10W-57W lamp 90 minutes |
| Initial Illumination | (1) Lamp up to 1100 lumens |
| Operating Temp | 0° to 50° C |
| Battery | 24 Hour Recharge 7-10 Year Life Expectancy |
| Weight | 3.6 lbs |
| Approval | UL and CUL Listed |



LUMEN OUTPUT

(1) Lamp - 1100 lumens

LAMPS OPERATED

10W-57W 4-Pin Rapid Start Compacts including Twin Tube, Triple Tube, Quad, 2D & Straight

EMERGENCY OPERATION

90 Minutes

PRODUCT ADVANTAGES

- Automatically conducts required monthly and annual testing
- Internal self-diagnostic circuitry tests lamp frequency, battery charge and discharge current
- [AC output](#) for compatibility with Low Mercury Content Amalgam lamps
- [Time Delay Enhancement](#) for compatibility with End-of-Lamp-Life circuitry
- [Open Circuit Isolation](#) protects unit when load is absent
- Universal Voltage 110-277V, 50-60Hz

FEATURES

- Will cold start and operate all specified lamps
- Long-life high-temperature recyclable Ni-Cad battery
- Galvanized steel case
- Includes one-piece test switch and dual color charge indicator (LPTS)
- For use with switched or unswitched fixtures
- [5-year warranty. See Warranty Page for details.](#)
- Suitable for use in Damp Locations and in [enclosed and gasketed fixtures](#)
- Selectable lamp leads optimize light output for desired lamp type
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements

AVERAGE LUMEN RATINGS

| Lamp | 1 Lamp |
|----------------------|--------|
| 13W PL CF 4-PIN | 740 |
| 18W PL CF QUAD 4-PIN | 780 |
| 26W PL CF QUAD 4-PIN | 1000 |
| 32W PL CF QUAD 4-PIN | 1060 |
| 42W PL CF QUAD 4-PIN | 1060 |
| 57W PL CF QUAD 4-PIN | 1190 |

DIMENSIONS

