

**COMPATIBLE WITH 4-PIN  
LOW-MERCURY CONTENT AMALGAM LAMPS**



MODEL NO: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

**LAMPS OPERATED\***

**10-57 Watt 4-pin Rapid Start Compact Lamps including Twin, Triple, Quad Tube, 2D & Straight**

\*Refer to Lumen Reference Chart for list of compatible lamps

**DESCRIPTION:**

The **I-420-EM-B** from IOTA Engineering is a UL Listed fluorescent emergency ballast that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the **I-420-EM-B** switches to the emergency mode and operates **one or two** of the existing lamps for **90 minutes**. The unit contains a battery, charger, and inverter circuit in a single can for installation in the wireway. The **I-420-EM-B** can be used with most 10W-57W twin, triple, quad tube, 2D and Straight **4-pin** compact fluorescent lamps, with an initial output of up to **1300 lumens** for one or two lamps. **The I-420-EM-B utilizes AC output to ensure compatibility with new lamp technologies**, and features lamp selector leads for optimizing light output for designated lamp types.

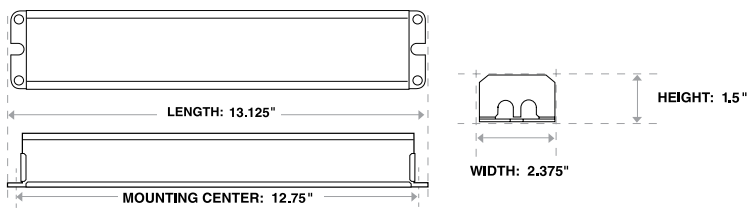
**TECHNICAL SPECIFICATIONS**

Input Voltage..... (Dual) 120/277V, 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 or (2) 10W-18W 90 minutes  
 Initial Illumination ..... 1300 lumens (2) lamps 650 lumens each lamp  
 Operating Temp ..... 0° to 55° C  
 Battery ..... 24 Hour Recharge 7-10 Year Life Expectancy  
 Weight ..... 3.5 lbs.  
 Approval ..... UL and CUL Listed



**CASE DIMENSIONS**

13.125" x 2.375" x 1.5" (mounting center 12.75")



**PRODUCT ADVANTAGES**

- AC output for compatibility with Low-Mercury Content Amalgam lamps**
- Time Delay feature for compatibility with End-of-Lamp-Life Circuitry**
- Open Circuit Isolation protects unit when load is absent**
- Designed for integral installation**

**FEATURES**

- Will cold start and operate all specified lamps
- Long life high temperature recyclable Ni-Cad battery
- Galvanized steel case
- Includes single-piece test switch and charge indicator (TBTS).
- For use with switched or unswitched fixtures
- 5-Year Warranty.** See Warranty Page for details.
- DL Model suitable for use 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
- International Voltage and Damp Location models available



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# I-420-EM-B

FLUORESCENT EMERGENCY BALLAST

## OPTIONS

### TEST KIT CONFIGURATION

- TBTS
- TWO-PIECE TEST SWITCH AND CHARGE INDICATOR

### SPECIALTY

- DL - SUITABLE FOR USE IN DAMP LOCATIONS AND ENCLOSED AND GASKETED FIXTURES

### VOLTAGE RATINGS

- 120/277V 60HZ (STANDARD)
- 220V 50HZ
- 240V 60HZ
- 120V 50HZ

## AVERAGE LUMEN RATINGS

LAMP	1 LAMP	2 LAMPS
13W PL CF 4-PIN	600	675
18W PL CF QUAD 4-PIN	600	950
26W PL CF QUAD 4-PIN	725	
32W PL CF QUAD 4-PIN	1050	
42W PL CF QUAD 4-PIN	1300	
57W PL CF QUAD 4 PIN	1160	
F282 D/42 4-PIN	800	850
F382 D/42 4-PIN	850	1125

## I-420-EM-B SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-420-EM-B** fluorescent emergency battery pack. The **I-420-EM-B** shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 13.125" x 2.375" x 1.5" vandal-resistant galvanized steel case for installation in the wireway or on top of the fixture. A combination one-piece long-life LED charge indicator light and test switch shall be included. The fluorescent EM pack shall operate one 10w-57w or two 10w-18w twin, triple, quad tube, 2D or straight **4-pin** fluorescent lamps. The **I-420-EM-B** shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1300 lumens. **The I-420-EM-B will operate the lamp(s) with AC output** and will feature selectable lamp leads for optimizing light output for the designated lamp type. The **I-420-EM-B** shall have 4 watts of input power and a battery capacity of 24 watt hours. The **I-420-EM-B** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-420-EM-B** is warranted for a full five (5) years from the date of purchase.

## REMOTE MOUNTING

When battery packs are remote mounted, the remote distance can not exceed  $\frac{1}{2}$  of the distance from ballast to lamp specified by the A.C. ballast manufacturer. The maximum allowable remote mounting distance is 6' from the lamp.