

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

**DESCRIPTION:**

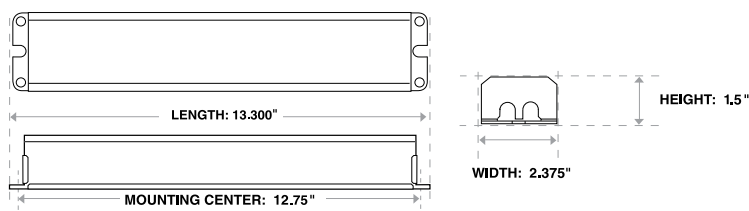
The **I-420-EM-A** from IOTA Engineering is a UL Listed fluorescent emergency ballast that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the **I-420-EM-A** switches to the emergency mode and operates **one or two** of the existing lamps for **90 minutes**. The unit contains a battery, charger, and inverter circuit in a single can. The **I-420-EM-A** 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-A utilizes AC output to ensure compatibility with new lamp technologies**, and features lamp selector leads for optimizing light output for designated lamp types. The **I-420-EM-A** provides flex for wiring to the fixture or ballast compartment and a single piece test switch and charge indicator for installation in a standard switch box for mounting adjacent to the fixture.

**TECHNICAL SPECIFICATIONS**

Input Voltage.....	(Dual) 120/277V, 60Hz
Input Wattage .....	3.5 Watts
Lamps Operated.....	10W-57W <b>4-pin</b> Rapid Start Compact Lamps including Twin, Triple, Quad Tube, 2D & Straight
Emergency Operation.....	(1) 10W-57W or (2) 10W-26W 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 .....	5.4 lbs.
Approval .....	UL and CUL Listed


**CASE DIMENSIONS**

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


**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

**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**  
**Dual Flex design**

**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.

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



# I-420-EM-A

FLUORESCENT EMERGENCY BALLAST

## OPTIONS

TEST KIT CONFIGURATION	
<input checked="" type="checkbox"/>	TBTS
<input type="checkbox"/>	TWO-PIECE TEST SWITCH AND CHARGE INDICATOR
<input type="checkbox"/>	LIGHTED TEST SWITCH IN REFLECTOR <small>RECOMMENDED FOR OEM INSTALLATION ONLY. CONTACT CUSTOMER SERVICE FOR DETAILS.</small>

SPECIALTY	
<input type="checkbox"/>	DL - DAMP LOCATION

VOLTAGE RATINGS	
<input checked="" type="checkbox"/>	120/277V 60HZ (STANDARD)
<input type="checkbox"/>	220V 50HZ
<input type="checkbox"/>	240V 60HZ
<input type="checkbox"/>	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	1200
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-A SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-420-EM-A** fluorescent emergency battery pack. The **I-420-EM-A** shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 13.3" x 2.375" x 1.5" vandal-resistant galvanized steel case. The unit is designed for installation on top of the fixture and is equipped with 1/2" flex for wiring to the fixture or ballast compartment. 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-26W twin, triple, quad tube, 2D or straight **4-pin** fluorescent lamps. The **I-420-EM-A** 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-A 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-A** shall have 4 watts of input power and a battery capacity of 24 watt hours. The **I-420-EM-A** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-420-EM-A** is warranted for a full five (5) years from the date of purchase.

## REMOTE MOUNTING

When battery packs are remote mounted, consult Customer Service for the maximum allowable distance between the battery pack and lamp(s).