

# I-42-EM-A

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



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

## LAMPS OPERATED\*

**10W-42W 4-pin Rapid Start Compact Lamps  
(Twin, Triple, Quad Tube, 2D & Straight)  
and 18W-36W Long Compact Lamps**

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

## DESCRIPTION:

The **I-42-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-42-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-42-EM-A** can be used with most 10W-42W twin, triple, quad tube, 2D and Straight **4-pin** compact fluorescent lamps and 18W-36W long compacts, with a total initial output of up to **650 lumens** for one or two lamps. **The I-42-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-42-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.

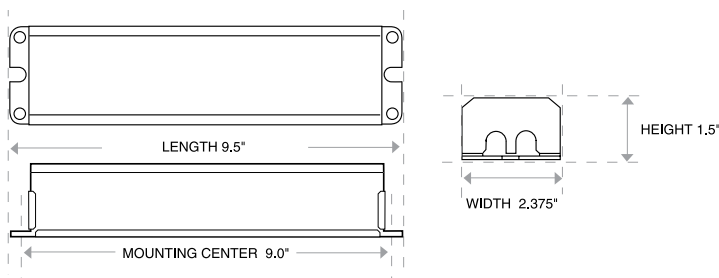
## TECHNICAL SPECIFICATIONS

Input Voltage..... (Dual) 120/277V, 60Hz  
Input Wattage ..... 3.5 Watts  
Lamps Operated..... 10W-42W **4-pin** Rapid Start Twin, Triple,  
Quad Tube, 2D & Straight Compact Lamps,  
and 18W-36W Long Compact Lamps  
Emergency Operation\* ..... (1) 10W-42W or (2) 10W-18W 90 minutes  
\*Long Compact - (1) lamp only  
Initial Illumination..... 650 lumens  
(2) lamps 325 lumens each lamp  
Operating Temp ..... 0° to 55° C  
Battery ..... 24 Hour Recharge  
7-10 Year Life Expectancy  
Weight ..... 4.4 lbs.  
Approval ..... UL and CUL Listed



## CASE DIMENSIONS

9.5" x 2.375" x 1.5" (mounting center 9.0")



## 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 one-piece TBTS test switch and  
charge indicator  
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-42-EM-A

FLUORESCENT EMERGENCY BALLAST

## OPTIONS

TEST KIT CONFIGURATION
<input checked="" type="checkbox"/> TBTS
<input type="checkbox"/> LIGHTED TEST SWITCH IN REFLECTOR RECOMMENDED FOR OEM INSTALLATION ONLY. CONTACT CUSTOMER SERVICE FOR DETAILS

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	350	400
18W PL CF QUAD 4-PIN	350	550
26W PL CF QUAD 4-PIN	425	
32W PL CF QUAD 4-PIN	600	
42W PL CF QUAD 4-PIN	750	
F282 D/42 4-PIN	475	500
F382 D/42 4-PIN	500	650
18W LONG COMPACT	500	
24W LONG COMPACT	575	
36W LONG COMPACT	650	

## I-42-EM-A SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-42-EM-A** fluorescent emergency battery pack. The **I-42-EM-A** shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 9.5" 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-42w or two 10w-18w twin, triple, quad tube, 2D or straight **4-pin** fluorescent lamps, or one 18w-36w long compact fluorescent lamp. The **I-42-EM-A** shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 650 lumens. **The I-42-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-42-EM-A** shall have 3.5 watts of input power and a battery capacity of 14.4 watt hours. The **I-42-EM-A** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-42-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).