

**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-TM** 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-TM** 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 on top of the ballast compartment or fixture. The **I-42-EM-TM** 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-TM utilizes AC output to ensure compatibility with new lamp technologies**, and features lamp selector leads for optimizing light output for designated lamp types.

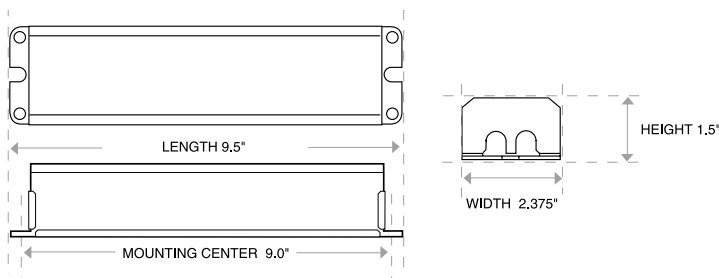
**TECHNICAL SPECIFICATIONS**

Input Voltage.....	(Dual) 120/277V, 60Hz
Input Wattage .....	3.5 Watts
Lamps Operated.....	10W-42W <b>4-pin</b> 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 .....	2.5 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**
- Top Mounting 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



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# I-42-EM-TM

FLUORESCENT EMERGENCY BALLAST

## OPTIONS

### TEST KIT CONFIGURATION

TBTS

### SPECIALTY

DL - DAMP LOCATION

### 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	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	

## 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 10' from the lamp.

## I-42-EM-TM SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-42-EM-TM** fluorescent emergency battery pack. The **I-42-EM-TM** 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 for installation on top of the ballast compartment or 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-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-TM** 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-TM 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-TM** shall have 3.5 watts of input power and a battery capacity of 14.4 watt hours. The **I-42-EM-TM** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-42-EM-TM** is warranted for a full five (5) years from the date of purchase.