

**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-J** 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-J** 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-J** 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-J 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-J** is designed for installation on the fixture junction box and provides 3/8" flex for wiring to the test accessory. The single piece test switch/charge indicator is provided for installation within a standard switch box for mounting adjacent to the fixture.

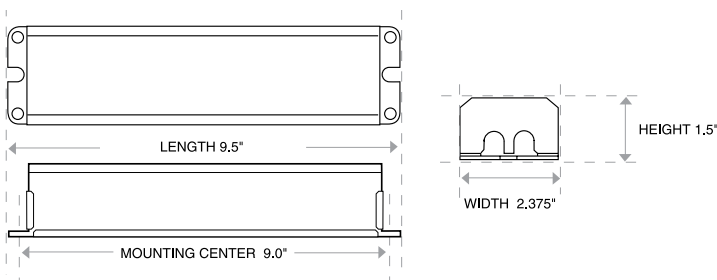
TECHNICAL SPECIFICATIONS

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 3.4 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**
- Single 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



P.O. BOX 11846 TUCSON, AZ 85734
 (520) 294-3292 • FAX (520) 741-2837
www.iotaengineering.com

I-42-EM-J

FLUORESCENT EMERGENCY BALLAST

OPTIONS

TEST KIT CONFIGURATION

- TBTS
- LIGHTED TEST SWITCH IN REFLECTOR
RECOMMENDED FOR OEM INSTALLATION ONLY.
CONTACT CUSTOMER SERVICE FOR DETAILS

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-J SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-42-EM-J** fluorescent emergency battery pack. The **I-42-EM-J** 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 $\frac{3}{8}$ " flex for wiring to a standard switch box. 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-J** 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-J 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-J** shall have 3.5 watts of input power and a battery capacity of 14.4 watt hours. The **I-42-EM-J** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-42-EM-J** is warranted for a full five (5) years from the date of purchase.