

**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 $\frac{3}{8}$ " 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. The **I-42-EM-J** is suitable for use in damp locations.

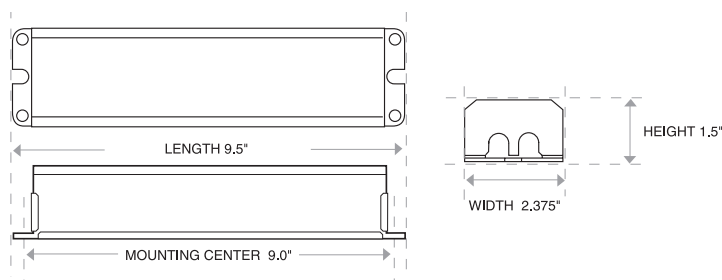
TECHNICAL SPECIFICATIONS

| | |
|----------------------------|---|
| 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 50° C |
| Battery | 24 Hour Recharge 7-10 Year Life Expectancy |
| Weight | 3.4 lbs. |
| Approval | UL and CUL 924 Listed |



CASE DIMENSIONS

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



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

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.

Suitable for use in damp locations

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 models available



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I-42-EM-J

FLUORESCENT EMERGENCY BALLAST

OPTIONS

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

| | |
|--------------------------|--------------------------|
| VOLTAGE RATINGS | |
| <input 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-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 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, and is rated for use in damp locations. The **I-42-EM-J** 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).