

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



MODEL NO: _____
 TYPE: _____
 PROJECT: _____
 COMMENTS: _____

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

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.

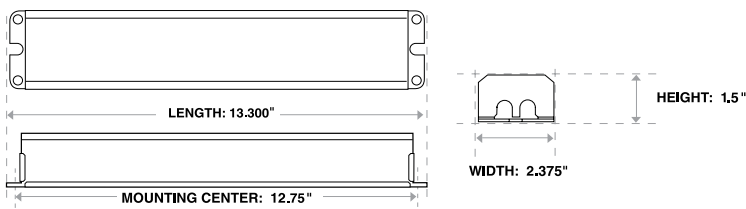
TECHNICAL SPECIFICATIONS

Input Voltage.....	(Dual) 120/277V, 60Hz
Input Wattage	3.5 Watts
Lamps Operated.....	10W-57W 4-pin 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")



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



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

I-420-EM-A

FLUORESCENT EMERGENCY BALLAST

OPTIONS

TEST KIT CONFIGURATION

- TBTS
- TWO-PIECE TEST SWITCH AND CHARGE INDICATOR
- 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	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, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. The maximum allowable remote mounting distance is 6' from the lamp.