

COLD WEATHER FLUORESCENT EMERGENCY BALLAST



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

LAMPS OPERATED*

10-42, 57, and 70 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 **ICE-420-EM-A** from IOTA Engineering is a UL Listed fluorescent emergency ballast for use in cold-weather applications that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the **ICE-420-EM-A** switches to the emergency mode and operates **one or two** of the existing lamps for **90 minutes**. The **ICE-420-EM-A** can be used with 10W to 70W 4-pin compact fluorescent lamps, providing an initial output of up to **1300 lumens** for one or two lamps, and features lamp selector leads for optimizing the light output for designated lamp types. The unit contains a battery, charger, and inverter circuit in a single can, in addition to temperature control circuitry and an internal heating element. The heating element and temperature control circuitry protect the battery pack from freezing during normal AC operation and allows the battery pack to reach acceptable operating temperatures before reactivating the charging circuit. The **ICE-420-EM-A** provides 3/8" flex for wiring to the fixture or ballast compartment and test accessories. The test switch and charge indicator are provided for installation in a standard switch box for mounting adjacent to the fixture.

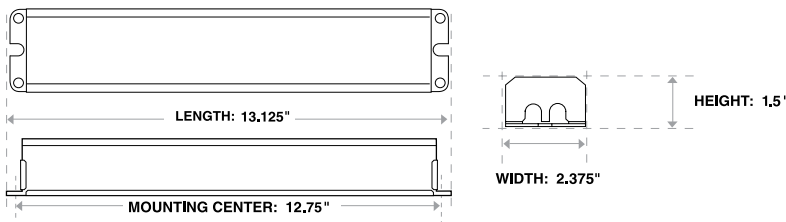
TECHNICAL SPECIFICATIONS

| | |
|--|--|
| Input Voltage..... | 120/277V, 60Hz |
| Input Wattage | 3.5 Watts |
| Wattage Draw (when heating element is on)..... | 100 Watts |
| Lamps Operated..... | 10W-70W 4-pin Rapid Start Compact Lamps, including Twin Tube, Triple Tube, Quad, 2D & Straight |
| Emergency Operation* | (1) 10W-70W or (2) 10W-32W 90 minutes |
| Initial Illumination..... | (1) lamp 1300 lumens (2) lamps 650 lumens each lamp |
| Operating Temp | -18° to 55° C |
| Battery | 24 Hour Recharge 7-10 Year Life Expectancy |
| Weight | 5.6 lbs. |
| Approval | UL Listed |



CASE DIMENSIONS

13.125" x 2.375" x 1.5" (mounting center 12.75")



PRODUCT ADVANTAGES

Designed for outdoor paths of egress and freezing environments

Internal Heating and Temperature Control protects the battery from freezing conditions

Damp Location Rated

Time Delay feature for compatibility with End-of-Lamp-Life circuitry

Open Circuit Isolation protects unit when load is absent

FEATURES

Will cold start and operate all specified lamps

Long life high temperature recyclable Ni-Cad battery

Galvanized steel case

Includes test switch and charge indicator accessories

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 models available



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ICE-420-EM-A

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OPTIONS

TEST KIT CONFIGURATIONS

- TWO-PIECE TEST SWITCH AND CHARGE INDICATOR
- TBTS

VOLTAGE RATINGS

- 120/277V 60HZ (STANDARD)
- 220V 50HZ
- 240V 60HZ
- 120V 50HZ

AVERAGE LUMEN RATINGS*

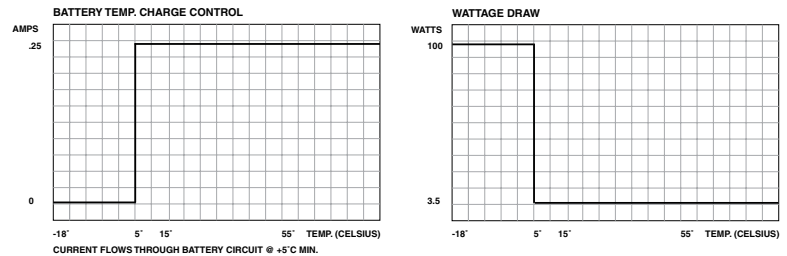
| LAMP | 1 LAMP | 2 LAMPS |
|----------------------|--------|---------|
| 13W PL CF 4-PIN | 600 | 675 |
| 18W PL CF QUAD 4-PIN | 600 | 950 |
| 26W PL CF QUAD 4-PIN | 725 | 1200 |
| 32W PL CF QUAD 4-PIN | 1050 | 1250 |
| 42W PL CF QUAD 4-PIN | 1300 | |
| 57W PL CF QUAD 4 PIN | 1160 | |
| 70W PL CF QUAD 4-PIN | 1200 | |
| F282 D/42 4-PIN | 800 | 850 |
| F382 D/42 4-PIN | 850 | 1125 |

*Rated lumens measured @ 25° C.

ICE-420-EM-A SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a fluorescent fixture and lamp(s) rated for exterior installation conditions equipped with an **IOTA ICE-420-EM-A** fluorescent emergency battery pack. The **ICE-420-EM-A** shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a 13.125" 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 the fixture or ballast compartment. A long-life LED charge indicator light and test switch shall be included. The fluorescent EM pack shall operate one 10w-42w, 57w, or 70w or two 10w-32w twin, triple, quad tube, 2D or straight **4-pin** fluorescent lamps. The **ICE-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, and will feature selectable lamp leads for optimizing light output for the designated lamp type. The **ICE-420-EM-A** shall have 3.5 watts of input power with the heating element off, 100 watts (.83 amps) with the heating element on, and a battery capacity of 24 watt hours. The **ICE-420-EM-A** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **ICE-420-EM-A** is warranted for a full five (5) years from the date of purchase.

TEMPERATURE CONTROLS



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. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack should not exceed 12 1/2'. The maximum allowable remote mounting distance is 50' from the lamp.