

COLD-WEATHER APPLICATIONS

ICE-420-EM-A

FLUORESCENT EMERGENCY BALLAST



LUMEN OUTPUT	
(One 10W-70W Lamp) 1300 Lumens (Two 10W-32W Lamps) 650 Lumens per Lamp	
LAMPS OPERATED	
10-42, 57, and 70 Watt 4-pin Rapid Start Compact Lamps including Twin, Triple, Quad Tube, 2D & Straight	
EMERGENCY OPERATION	
90 Minutes (1) 10W-70W or (2) 10W-32W	

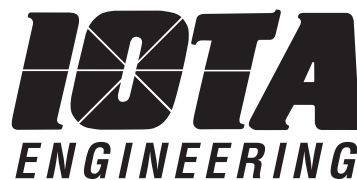
The **ICE-420-EM-A** from IOTA Engineering is a UL Listed fluorescent emergency ballast for use in cold-weather applications that allows the same fixture to be used for both normal and emergency operation. In the event of a power failure, the **ICE-420-EM-A** switches to the emergency mode and operates **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 $\frac{3}{8}$ " flex for wiring to the fixture or ballast compartment and standard switch box containing the test switch, charge light, and unit battery connector.

CASE DIMENSIONS	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 1300 lumens (2) lamps 650 lumens each lamp Operating Temp -18° to 55° C Approval U.L. Listed Weight 5.6 lbs.

- U.L. Listed
- Long life high temperature recyclable Ni-Cad battery
- Galvanized steel case
- 90 minute emergency operation
- Dual voltage 120/277V, 60Hz
- Internal Heating and Temperature Control
- Damp Location Rated
- 5-Year Warranty. See Warranty Page for details.

- Time delay enhancements
- Open circuit isolation
- Includes test switch and charge indicator accessory kit
- Selectable lamp leads for optimizing light output for desired lamp type
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- International Voltage Models available

MODEL NO: ICE-420-EM-A TYPE:
PROJECT:
COMMENTS:



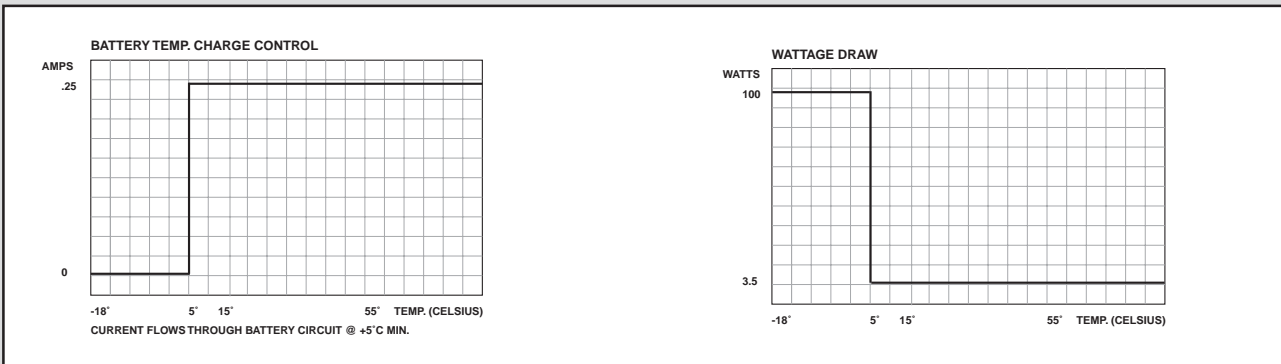
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SAMPLE SPECIFICATION

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 3/8" x 2 3/8" x 1 1/2" 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



OPTIONS

TEST KIT CONFIGURATIONS

- TBTS
- TWO-PIECE (TEST SWITCH AND CHARGE INDICATOR)

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.

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.