

**COLD WEATHER FLUORESCENT EMERGENCY BALLAST**



MODEL NO: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

**LAMPS OPERATED\***

Most 2'-8' single, bipin, T8 & T12, HO or VHO fluorescent lamps, incl. long compact and 2'-4' 28W to 54W T5 lamps

\*Refer to Lumen Reference Chart for list of compatible lamps

**DESCRIPTION:**

The ICE-80 from IOTA Engineering is a UL Listed fluorescent emergency ballast for use in cold-weather applications allowing the fixture to be used for both normal and emergency operation. The unit can be mounted in the wireway or on top of the fixture. In the event of a power failure, the ICE-80 switches to the emergency mode and operates **one or two** of the existing lamps for **90 minutes**. The ICE-80 can be used with most 2'-8' lamps, with an initial output of up to **1300 lumens** for one or two lamps, and features lamp selector leads for optimizing light output for the designated lamp type. 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.

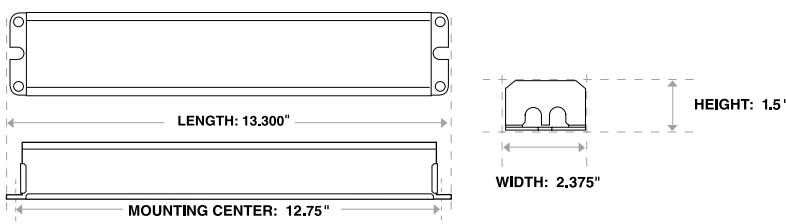
**TECHNICAL SPECIFICATIONS**

Input Voltage.....	(Dual) 120/277V, 60Hz
Input Wattage .....	3.5 Watts
Wattage Draw (when heating element is on).....	100 Watts
Lamps Operated.....	Most 2'-8' single, bipin T8 & T12 HO or VHO fluorescent lamps, incl. long compact and 2'-4' 28W to 54W T5 lamps
Emergency Operation* .....	(1) 2'-8' or (2) 2'-4' 90 minutes *Long compact and T5 - (1) lamp only
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 .....	3.6 lbs.
Approval .....	UL and CUL Listed



**CASE DIMENSIONS**

13.3" 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
- Suitable for use in enclosed and gasketed fixtures
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- International Voltage models available



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# ICE-80

COLD WEATHER FLUORESCENT EMERGENCY BALLAST

## OPTIONS

### CONFIGURATION

- TBTS
- TWO-PIECE TEST SWITCH AND CHARGE INDICATOR
- TWO-PIECE WITH OEM 90° CONNECTOR

### VOLTAGE RATINGS

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

## AVERAGE LUMEN RATINGS

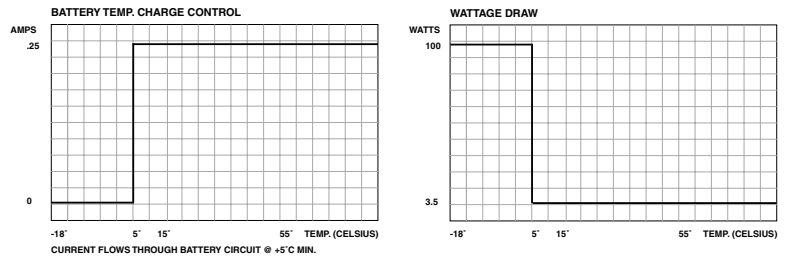
LAMP	1 LAMP	2 LAMPS
F16 T8	1125	1100
F17 T8	1125	1100
F25 T8	1200	1150
F28 T8	1215	1175
F32 T8	1350	1350
8' T8 (FO96) (59W)	1300	
F20 T12	680	
F40 T12	1150	
F48 T12	1150	
8' T12 (F96T12) (60W)	1125	
28W T5	1050	
39W T5	1100	
54W T5	1150	
20W Circline	1125	
40W Circline	1125	
57W PL CF Quad 4 Pin	1160	
70W PL CF Quad 4 Pin	1200	
36W Long Compact	1050	
40W Long Compact	1050	
50W Long Compact	1100	
55W Long Compact	1100	

\*Rated lumens measured @ 25° C.

## ICE-80 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-80** fluorescent emergency battery pack. The **ICE-80** 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 for installation in the wireway or on top of the fixture. A long-life LED charge indicator light and test switch shall be included. The fluorescent EM pack shall operate one 17w-75w (2'-8') T8 - T12, 28w to 54w (2'-4') T5, 36w-55w long compact or two 17w-40w (2'-4') T8 - T12 fluorescent lamps. The **ICE-80** 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-80** 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-80** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **ICE-80** 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.