

**PARALLEL OPERATION EMERGENCY BALLAST**



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

**LAMPS OPERATED\***

Most 2'-4' single, bipin, T8 & T12, HO or VHO fluorescent lamps

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

**DESCRIPTION:**

The I-232 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-232 switches to the emergency mode and operates **two** of the existing lamps **in parallel** for **90 minutes**. The unit contains a battery, charger, and inverter circuit in a single can, and can be mounted in the wireway or on top of the fixture. The I-232 can be used with most 2'-4' lamps, with an initial output of up to **1400 lumens for two lamps** (700 lumens each lamp). If one of the lamps is inoperable, the I-232 will operate the remaining lamp with an initial output of 1000 lumens. The I-232 is compatible with **all** electronic or magnetic, series or parallel output, multi-lamp ballasts.

**TECHNICAL SPECIFICATIONS**

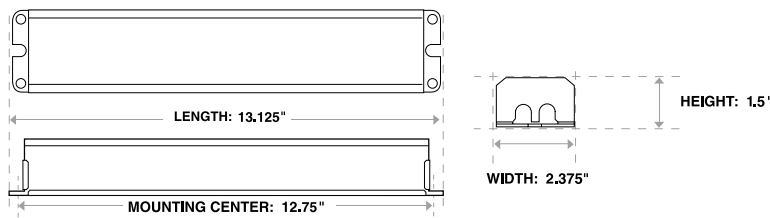
Input Voltage ..... (Dual) 120/277V, 60Hz  
 Input Wattage ..... 4 Watts  
 Lamps Operated ..... Most 2'-4' single, bipin T8 thru T12  
 HO and VHO fluorescent lamps  
 Emergency Operation ..... 90 minutes  
 Initial Illumination ..... (2) lamps - 1400 lumens\*  
 (700 lumens each lamp)  
 Operating Temp ..... 0° to 55° C  
 Battery ..... 24 Hour Recharge  
 7-10 Year Life Expectancy  
 Weight ..... 3.6 lbs.  
 Approval ..... UL and CUL Listed



\*Initial Illumination is 1000 lumens when one lamp is inoperable

**CASE DIMENSIONS**

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



**PRODUCT ADVANTAGES**

**Parallel Lamp Operation**

**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 accessory kit
- For use with any magnetic or electronic ballasts
- For use with switched or unswitched fixtures
- 5-Year Warranty.** See Warranty Page for details.
- DL model suitable for use in enclosed and gasketed fixtures**
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- International Voltage and Damp Location Models available



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# I-232

PARALLEL OPERATION EMERGENCY BALLAST

## OPTIONS

### CONFIGURATION

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

### SPECIALTY

- DL - SUITABLE FOR USE IN DAMP LOCATIONS AND ENCLOSED AND GASKETED FIXTURES

### VOLTAGE RATINGS

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

## AVERAGE LUMEN RATINGS

LAMP	2 LAMPS
F17 T8	1000
F32 T8	1400
F20 T12	900
F40 T12	1200

## REMOTE MOUNTING

When battery packs are remote mounted, the remote distance can not exceed  $\frac{1}{2}$  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' $\frac{1}{2}$ '. The maximum allowable remote mounting distance is 50' from the lamp.

## I-232 SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA I-232** fluorescent emergency battery pack. The **I-232** 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 for installation either inside 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 **two** 20w-40w (2'-4') T8 - T12 fluorescent lamps, in **PARALLEL OPERATION**. The **I-232** shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1400 lumens. Should one lamp become inoperable, the remaining lamp shall operate at a minimum initial output of 1000 lumens. The **I-232** shall have 4 watts of input power and a battery capacity of 24 watt hours. The **I-232** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements. The **I-232** is warranted for a full five (5) years from the date of purchase.

## PARALLEL OPERATION SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an integral fluorescent emergency battery pack. The EM pack shall consist of a high temperature, maintenance-free nickel cadmium battery, charger board and an electronic circuit enclosed in a galvanized steel case for installation either inside 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 **two** 20w-40w (2'-4') T8 - T12 fluorescent lamps in parallel lamp operation. The EM pack shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1400 lumens. Should one lamp become inoperable, the remaining lamp shall operate at a minimum initial output of 1000 lumens. The unit shall have 4 watts of input power and a battery capacity of 24 watt hours. The EM pack must be UL Listed and meet or exceed all NEC and Life Safety Code Emergency Lighting Requirements. All product shall be warranted for a full five (5) years from the date of purchase.