

MODEL NO: _____

TYPE: _____

PROJECT: _____

COMMENTS: _____

LAMPS OPERATED*

Most 2'-4' bipin, T8 & T12,
HO or VHO fluorescent lamps, incl. long compact
and 2'-4' 14W to 54W T5 lamps

*Refer to Lumen Reference Chart for list of compatible lamps

DESCRIPTION:

The **ISD-80** from IOTA Engineering is a UL Listed self-diagnostic 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 **ISD-80** switches to the emergency mode and operates **one** of the existing lamps 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 **ISD-80** will self-test for thirty seconds monthly and for ninety minutes annually and will diagnose potential problems within the light fixture. If problems are encountered, the unit will specify failure of the battery, charge, lamp, or inverter by means of an audible beep and flashing red indicator. The dual color LED indicator is lit red when charging and lit green when ready. The **ISD-80** can be used with 2'-4' bipin fluorescent lamps, providing an initial output of up to **1100 lumens** for one lamp, and features lamp selector leads for optimizing light output for designated lamp types. **The ISD-80 utilizes AC output to ensure compatibility with new lamp technologies.** The **ISD-80** is suitable for use in damp locations and enclosed and gasketed fixtures.

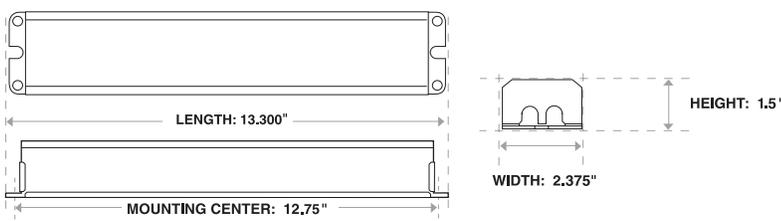
TECHNICAL SPECIFICATIONS

Input Voltage.....	110-277V, 50-60Hz
Input Wattage	3.5 Watts
Lamps Operated*	Most 2'-4' bipin T8 & T12 HO or VHO fluorescent lamps, incl. long compact and 2'-4' 14W to 54W T5 lamps *Not for use with single pin lamps
Emergency Operation.....	(1) 2'-4' 90 minutes
Initial Illumination	1100 lumens
Operating Temp	0° to 50° 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

Automatically conducts required monthly and annual testing

Internal self-diagnostic circuitry tests lamp frequency, battery charge and discharge current

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

Universal Voltage 110-277V, 50-60Hz

FEATURES

Will cold start and operate all specified lamps

Long life high temperature recyclable Ni-Cad battery

Galvanized steel case

Includes one-piece test switch and dual color charge indicator (LPTS)

For use with switched or unswitched fixtures

5-Year Warranty. See Warranty Page for details.

Selectable lamp leads optimizes light output for desired lamp type

Suitable for use in damp locations and enclosed and gasketed fixtures

Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements



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ISD-80

SELF-DIAGNOSTIC FLUORESCENT EMERGENCY BALLAST

OPTIONS

CONFIGURATION

■ LPTS

VOLTAGE RATINGS

■ UNIVERSAL VOLTAGE 110-277V, 50-60Hz

AVERAGE LUMEN RATINGS

LAMP*	1 LAMP
F14 T8	550
F15 T8	600
F17 T8	780
F25 T8 (3 ft)	980
F25 T8 (4 ft)	1080
F28 T8	1090
F32 T8	1140
F20 T12	650
F34 T12	940
F40 T12	1030
14W T5	740
21W T5	990
28W T5	970
35W T5	1100
39W T5	960
54W T5	1190
18W Long Compact	710
24W Long Compact	860
28W Long Compact	1160
36W Long Compact	1120
40W Long Compact	1120
50W Long Compact	1120
55W Long Compact	1100
9W Circline T5	970
12W Circline T5	1100
22W Circline T9	730
55W Circline T5	980

*Not for use with single pin lamps

DIAGNOSTIC CODES

LED IS RED WHEN CHARGING, GREEN WHEN READY			FAILURE CODES OCCUR ONCE EVERY 15 SECONDS WITH 1 SECOND DELAY BETWEEN CODES IN INSTANCES OF MULTIPLE FAILURE
CHARGE FAILURE	1 BEEP	1 FLASH	
BATTERY FAILURE	2 BEEPS	2 FLASHES	
LAMP FAILURE*	3 BEEPS	3 FLASHES	
INVERTER FAILURE*	4 BEEPS	4 FLASHES	

*IF FAILURE, REPLACE LAMP AND RESET UNIT BY DEPRESSING THE TEST SWITCH FOR 3 SECONDS, THEN RETEST.

ISD-80 SAMPLE SPECIFICATION

Emergency lighting shall be provided by using a standard fluorescent fixture equipped with an **IOTA ISD-80** self-diagnostic fluorescent emergency battery pack. The **ISD-80** shall be designed to automatically test the emergency lighting capability for no less than 30 seconds monthly and 90 minutes annually, and shall monitor lamp frequency, battery charge and battery discharge current. An audible alarm and light-emitting LED shall be provided to indicate test results and charge status. The **ISD-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 either inside the wireway or on top of the fixture. A combination one piece test switch and long-life LED charge indicator light for monitoring charger, inverter, battery, and fault conditions shall be included. The fluorescent EM pack shall operate one bipin (2'-4') T8 - T12, (2'-4') T5, or long compact lamp, and **will operate the lamp with AC output**. The **ISD-80** shall provide reduced illumination for a minimum of 90 minutes in the emergency mode with a total initial output of 1100 lumens and feature lamp selector leads for optimizing the light output for the designated lamp type. The **ISD-80** shall have 3.5 watts of input power and a battery capacity of 24 watt hours. The **ISD-80** is UL Listed and meets or exceeds all NEC and Life Safety Code Emergency Lighting Requirements, and rated for use in damp locations. The **ISD-80** is warranted for a full five (5) years from the date of purchase.

REMOTE MOUNTING

When battery packs are remote mounted, consult Customer Service for the maximum allowable distance between the battery pack and lamp(s).