EMERGENCY LIGHTING SOLUTIONS FOR FLUORESCENT and LED RETROFIT
**EMERGENCY SOLUTIONS for FLUORESCENT and LED RETROFIT LAMPS**

IOTA’s Fluorescent Emergency Ballasts set the standard for emergency lighting solutions. Our innovative product designs such as the ISL Series slim profile battery packs and AC output emergency ballasts have paved the way for bringing safe, reliable emergency lighting to today’s egress applications. We continually expand and enhance our product lines so our customers have access to reliable emergency lighting solutions that keep pace with the latest ballast and lamp technologies. When the lights go out, you’re prepared...

**SOLUTIONS FOR DESIGNERS...**

IOTA Emergency Ballasts offer UL Listed integral emergency lighting solutions for your lighting schedule. Our products deliver a wide range of lumen output levels to match your egress environment without the need for additional circuits or unattractive wall-mounted fixtures.

**SOLUTIONS FOR MANUFACTURERS...**

Whether it’s a strip fixture, downlight fixture or troffer with limited compartment space, IOTA’s RoHS-compliant products deliver the value of reliable emergency options to your fixture designs and lamp and ballast requirements.

**SOLUTIONS FOR RETROFIT...**

Adding emergency lighting to an existing application or revitalizing your environment with new LED tube lamps? IOTA offers solutions that allow you to achieve your retrofit objectives without compromising your path of egress requirements. Our knowledgeable and friendly Customer Service team are happy to assist with selecting the best emergency battery pack for your project. Call us at 1-800-866-4682 or visit us on-line at www.iotaengineering.com to take advantage of IOTA’s emergency lighting expertise...we can guide you to the IOTA solution that’s right for you!
WHAT HAPPENS WHEN THE LIGHTS GO OUT?

WITH

YOU’LL SEE...
LINEAR FLUORESCENT

IOTA's linear fluorescent products provide practical solutions for most linear lamp type fixtures utilizing 2 to 8 ft T5 through T12 lamps.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lumens</th>
<th>Lamps Operated</th>
<th>Initial Illumination</th>
<th>Case Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-32</td>
<td>500</td>
<td>Most 2′-4′ single, bipin 28W T5 through T12 fluorescent lamps</td>
<td>1 lamp 500 lumens 90 Minutes</td>
<td>9.5” x 2.0” x 1.0” (Fig. A)</td>
<td>1.5 lbs</td>
</tr>
<tr>
<td>I-40</td>
<td>700</td>
<td>Most 2′-4′ single, bipin T8 through T12 fluorescent lamps</td>
<td>1 lamp 700 lumens 90 Minutes</td>
<td>9.5” x 2.375” x 1.5” (Fig. B)</td>
<td>2.4 lbs</td>
</tr>
<tr>
<td>I-48</td>
<td>700</td>
<td>Most 2′-8′ single, bipin T8 through T12 HO and VHO fluorescent lamps</td>
<td>1 (2′-8′) lamp 700 lumens 2 (2′-4′) lamps 350 lumens each 90 Minutes</td>
<td>9.5” x 2.375” x 1.5” (Fig. B)</td>
<td>2.4 lbs</td>
</tr>
<tr>
<td>I-320</td>
<td>1200</td>
<td>Most 2′-4′ single, bipin T8, 2′-4′ T5, HO and VHO fluorescent lamps</td>
<td>1 (2′-4′) lamp 1200 lumens 90 Minutes</td>
<td>13.0” x 2.2” x 1.25” (Fig. C)</td>
<td>2.5 lbs</td>
</tr>
</tbody>
</table>

**ALL IOTA EMERGENCY BALLASTS INCLUDE THE FOLLOWING FEATURES...**

- **Time Delay Enhancement**: ‘End of Lamp Life’ circuitry in AC ballasts can activate when power switches from the emergency battery pack to the AC supply. IOTA emergency battery packs provide a brief delay that allows time for the AC ballast to recognize that the lamp is still functioning and eliminate conflicts with testing and operation of the emergency battery pack.

- **Open Circuit Isolation**: All IOTA emergency ballasts guard against the dangers of an open circuit caused by an absence of load - such as when the lamps are burned out or are being removed for replacement.

- **LED Retrofit Solutions**: AC output IOTA emergency ballasts are compatible and UL Listed for select LED retrofit tube models. Visit www.iotaengineering.com/ledretrofit.htm for current compatibility listings.
LAMPS OPERATED
Most 2’-4’ single, bipin T8 through T12, 2’-4’ T5, HO and VHO fluorescent lamps and 18W-70W 4-pin compact fluorescent lamps.

INITIAL ILLUMINATION
1 (2’-4’ lamp) 3000 lumens
1 4-pin compact lamp 1750 lumens

CASE DIMENSIONS
16.375” x 3.0” x 3.0” (Fig. F)

WEIGHT
9.75 lbs

PARALLEL OPERATION

The Parallel Operation design of the I-232 and I-162 offers an additional level of safety by operating two lamps in parallel in the emergency mode. If one of the lamps is inoperative, the emergency ballast will continue to operate the remaining lamp.

I-880 INTEGRAL PROFILE

The I-880 is the only emergency battery pack that combines 2000 lumen emergency illumination with an integral housing for installation within troffer and strip fixtures.

RECESSED MOUNTING PAN

The I-160 and I-162 are also available with a recessed mounting pan option, allowing for installation directly into grid ceiling applications with easy access to the test switch and charge indicator accessories.
The ISL Series, the original slim-design battery pack, implements a narrow profile ideal for T5 fixtures. With output options up to 1300 lumens, the ISL Series emergency ballasts meet the demands for both safety and design.

**ISL-28 500 LUMENS**

**LAMPS OPERATED**
Most 2'-4' T5 up to 28W or T8 linear fluorescent lamps.

**INITIAL ILLUMINATION**
1 lamp 500 lumens
90 Minutes

**CASE DIMENSIONS**
14.2” x 1.18” x 1.15” (Fig. G)

**WEIGHT**
2.0 lbs

**ISL-54 825 LUMENS**

**LAMPS OPERATED**
Most 2'-4' 28W and 54W T5, or T8 linear lamps, including HO, and 40-55 watt 4-pin long compact fluorescent lamps.

**INITIAL ILLUMINATION**
1 lamp 825 lumens
90 Minutes

**CASE DIMENSIONS**
17.5” x 1.18” x 1.15” (Fig. H)

**WEIGHT**
2.4 lbs

**ISL-540 1300 LUMENS**

**LAMPS OPERATED**
Most 2'-4' 28W and 54W T5, or T8 linear lamps, including HO, and 40-55 watt 4-pin long compact fluorescent lamps. 35W T5 Modification available

**INITIAL ILLUMINATION**
1 lamp 1300 lumens
90 Minutes

**CASE DIMENSIONS**
21.5” x 1.18” x 1.15” (Fig. I)

**WEIGHT**
3.0 lbs

---

**THE ORIGINAL SLIM-LINE EMERGENCY BALLAST...**

IOTA introduced the ISL Series to provide emergency solutions for T5 applications and architectural fixture designs with limited compartment space. The ISL Series combines form and function with up to 1300 lumens emergency illumination, AC output for low mercury content amalgam lamps, and is rated for use in damp locations and enclosed and gasketed fixtures.

---

**LED RETROFIT SOLUTIONS**

AC output IOTA emergency ballasts are compatible and UL Listed for select LED retrofit tube models. Visit www.iotaengineering.com/ledretrofit.htm for current compatibility listings.
With AC output and different mounting options, IOTA compact fluorescent emergency ballasts provide versatile solutions for many compact lamp types and fixtures in use today.

**I-42** 650 LUMENS

**LAMPS OPERATED**
10W-42W 4-pin rapid start compact lamps, including twin, triple, quad tube, and 2D fluorescent lamps

**INITIAL ILLUMINATION**
1 (10W-42W) lamp 650 lumens
2 (10W-18W) lamps 325 lumens ea.

**CASE DIMENSIONS**
9.5" x 2.375" x 1.5" (Fig. B)

**WEIGHT**
EM-A  4.4 lbs  
EM-B  2.4 lbs

**I-420** 1100 LUMENS

**LAMPS OPERATED**
10W-57W 4-pin rapid start compact lamps, including twin, triple, quad tube, and 2D fluorescent lamps

**INITIAL ILLUMINATION**
1 (10W-57W) lamp 1100 lumens
2 (10W-26W) lamps 550 lumens ea.

**CASE DIMENSIONS**
13.3" x 2.375" x 1.5" (Fig. D)

**WEIGHT**
EM-A  5.4 lbs  
EM-B  3.5 lbs

**I-462** 1850 LUMENS

**LAMPS OPERATED**
(2) 13W-42W 4-pin rapid start compact lamps, including twin, triple, quad tube, and 2D fluorescent lamps, and 18W-50W long compacts.

**INITIAL ILLUMINATION**
1850 lumens
2 lamps 925 lumens each

**CASE DIMENSIONS**
16.375" x 3.0" x 3.0" (Fig. F)

**WEIGHT**
9.75 lbs

---

Series AC emergency ballasts from IOTA were the first emergency battery packs to offer compatibility with today’s low-mercury content amalgam lamps. The advent of this lamp technology required a unique emergency ballast that could operate with the sensitive design of the lamp. IOTA’s AC Series emergency ballasts were designed specifically to deliver compatibility with these newer environmentally-friendly lamps.

**MOUNTING OPTIONS**
IOTA battery packs for compact lamps offer a variety of mounting configurations to meet several installation requirements. Refer to page 8 for an overview of available mounting options.

www.iotaengineering.com 7
IOTA Emergency Ballasts for compact lamps are available in a variety of mounting configurations to accommodate various fixture types and mounting scenarios. Refer to individual product specifications to determine which mounting configuration is available for each emergency ballast model.

**DUAL FLEX CONFIGURATIONS**

The EM-A provides dual flex for wiring to both the fixture or ballast compartment and test accessories.

The EM-R provides dual flex for wiring to the fixture or ballast compartment. The single-piece test accessory is provided with hardware for installation directly within the reflector. (Recommended for OEM installation only.)

**NO-FLEX CONFIGURATIONS**

The EM-B allows for integral installation within the ballast compartment. The EM-B may also be mounted atop the fixture when used with a TMK-80 cover accessory.

The EM-TM provides a top-mounting option for running wires directly into the ballast compartment. Test accessories are then installed within the fixture.

**SINGLE FLEX CONFIGURATIONS**

The EM-J is designed to be mounted to the junction box and provides flexible conduit for remote mounting of the test accessories.

Like the EM-J, the EM-R-J can be mounted to the junction box. The single-piece test accessory is provided with hardware for installation directly within the reflector. (Recommended for OEM installation only.)

**2-PIN COMPACT FLUORESCENT**

**I-13 650 LUMENS**

**LAMPS OPERATED**

- 5, 7, 9, and 13 watt twin tube
- 2-pin with integral starter, 9W-13W quad 2-pin with integral starter

**INITIAL ILLUMINATION**

1 lamp 650 lumens
90 Minutes

**CASE DIMENSIONS**

9.5” x 2.375” x 1.5” (Fig. B)

**WEIGHT**

- EM-A  4.4 lbs
- EM-B  2.4 lbs

**I-26 650 LUMENS**

**LAMPS OPERATED**

18 & 26 watt quad tube 2-pin lamps with integral starter

**INITIAL ILLUMINATION**

1 lamp 650 lumens
90 Minutes

**CASE DIMENSIONS**

9.5” x 2.375” x 1.5” (Fig. B)

**WEIGHT**

- EM-A  4.4 lbs
- EM-B  2.4 lbs
ISD Series emergency ballasts help ensure compliance with national and local regulations with automatic monthly and annual testing. ISD Series ballasts utilize AC output for compatibility with new lamp technologies.

**ISD-80** 1100 LUMENS

**LAMPS OPERATED**
Most 2'-4' bipin T8, T12, and T5, HO and VHO fluorescent lamps

**INITIAL ILLUMINATION**
1 lamp 1100 lumens
90 Minutes

**CASE DIMENSIONS**
13.3" x 2.375" x 1.5" (Fig. D)

**WEIGHT**
3.6 lbs

**AC OUTPUT**
FOR LOW-MERCURY CONTENT FLUORESCENT LAMPS

**120VAC/277VAC**
UNIVERSAL VOLTAGE

**SELF-DIAGNOSTIC AUTOMATIC TESTING OF LAMPS, BATTERY, AND CHARGED CIRCUIT**

**LED RETROFIT SOLUTION**

**ISD-420-EM-A** 1100 LUMENS

**LAMPS OPERATED**
10W-57W 4-pin rapid start compact lamps, including twin tube, triple tube, quad, 2D, and long compact fluorescent lamps

**INITIAL ILLUMINATION**
1 lamp 1100 lumens
90 Minutes

**CASE DIMENSIONS**
13.3" x 2.375" x 1.5" (Fig. D)

**WEIGHT**
5.6 lbs

**AC OUTPUT**
FOR LOW-MERCURY CONTENT FLUORESCENT LAMPS

**120VAC/277VAC**
UNIVERSAL VOLTAGE

**SELF-DIAGNOSTIC AUTOMATIC TESTING OF LAMPS, BATTERY, AND CHARGED CIRCUIT**

**LED RETROFIT SOLUTION**

**ISD-420-EM-B** 1100 LUMENS

**LAMPS OPERATED**
10W-57W 4-pin rapid start compact lamps, including twin tube, triple tube, quad, 2D, and long compact fluorescent lamps

**INITIAL ILLUMINATION**
1 lamp 1100 lumens
90 Minutes

**CASE DIMENSIONS**
13.3" x 2.375" x 1.5" (Fig. D)

**WEIGHT**
3.6 lbs

**AC OUTPUT**
FOR LOW-MERCURY CONTENT FLUORESCENT LAMPS

**120VAC/277VAC**
UNIVERSAL VOLTAGE

**SELF-DIAGNOSTIC AUTOMATIC TESTING OF LAMPS, BATTERY, AND CHARGED CIRCUIT**

**LED RETROFIT SOLUTION**

**MONTHLY AND ANNUAL TESTING**

The ISD Series emergency ballast will automatically conduct a 90-minute annual test and a short monthly 30-second test to determine the status of the emergency system. These tests verify proper operation of the ISD battery and charging circuit, as well as the condition of the designated emergency lamp. Should a failure occur in any of these areas, the ISD will issue an alert and identify the nature of the problem through a sequence of flashes on the indicator light.

**LED RETROFIT SOLUTIONS**

AC output IOTA emergency ballasts are compatible and UL Listed for select LED retrofit tube models. Visit www.iotaengineering.com/ledretrofit.htm for current compatibility listings.

www.iotaengineering.com
ICE Series Cold-Weather Equipment provides necessary emergency lighting for outdoor paths of egress. Designed to operate within -18°F to 50°F, ICE Series battery packs are ideal for covered walkways, parking garages, and exit points.

**ICE-80 1300 LUMENS**
- **LAMPS OPERATED**
  - Most 2'-8' single, bipin T8 through T12, 2'-4' T5, HO and VHO fluorescent lamps
- **INITIAL ILLUMINATION**
  - 1 (2'-8') lamp 1300 lumens
  - 2 (2'-4') lamps 650 lumens each
- **CASE DIMENSIONS**
  - 13.3" x 2.375" x 1.5" (Fig. D)
- **WEIGHT**
  - 3.6 lbs

**ICE-420-EM-A 1300 LUMENS**
- **LAMPS OPERATED**
  - 10W-70W 4-pin rapid start compact lamps, including twin tube, triple tube, quad, 2D, and long compact fluorescent lamps
- **INITIAL ILLUMINATION**
  - 1 (10W-70W) lamp 1300 lumens
  - 2 (10W-32W) lamps 650 lumens each
- **CASE DIMENSIONS**
  - 13.3" x 2.375" x 1.5" (Fig. D)
- **WEIGHT**
  - 5.6 lbs

**ICE-420-EM-B 1300 LUMENS**
- **LAMPS OPERATED**
  - 10W-70W 4-pin rapid start compact lamps, including twin tube, triple tube, quad, 2D, and long compact fluorescent lamps
- **INITIAL ILLUMINATION**
  - 1 (10W-70W) lamp 1300 lumens
  - 2 (10W-32W) lamps 650 lumens each
- **CASE DIMENSIONS**
  - 13.3" x 2.375" x 1.5" (Fig. D)
- **WEIGHT**
  - 3.6 lbs

---

**THERMAL HEAT BLANKET**

The internal battery of the ICE Series emergency ballast is encased within an electrically-controlled thermal blanket. The heating element of the blanket activates when conditions approach freezing temperatures. This protects the battery from being damaged by the extreme temperatures and ready to supply emergency illumination in the event of a power loss.

---

**TEMPERATURE CONTROL CIRCUITRY**

If the battery has been discharged for any reason, the Temperature Control Circuitry of the ICE emergency ballast ensures that the battery reaches acceptable temperatures before supplying a charge in order to prevent damage to the battery.
LED RETROFIT SOLUTIONS

IOTA Emergency Ballasts that feature AC output are compatible with most LED retrofit lamp designs and are UL Listed for select LED retrofit lamp applications. Visit the LED Retrofit Selector Tool at www.iotaengineering.com/ledretofit.htm to find available IOTA emergency ballast and LED lamp solutions.

ETS-20 AND ETS EMERGENCY CONTROL DEVICES

The ETS-20 and ETS Emergency Control Devices promote higher energy savings by allowing the use of auxiliary generator or inverter power on switched fixtures in power failure situations, eliminating the need for ‘always on’ night lights. The ETS units sense the loss of normal AC power and switch to the auxiliary supply. Use the ETS for a single switched fixture. For multiple fixture control and dimming options, use the ETS-20 or ETS-20-DR on a designated circuit up to 20 amps.

D-48-T EMERGENCY INVERTER BALLAST

The D-48-T operates without an internal battery, and is used as an inverter unit for facilities such as telephone operations buildings that have central 48V battery systems. In power loss situations, the D-48-T will operate the lamp from the 48V supply. While in the emergency mode, the D-48-T operates one of the lamps at full light output for as long as the central 48V battery supply is available.

OPEN BOARD DESIGNS

Open Board emergency ballast kits include the circuit board with inverter and charger and separate battery pack. These kits are designed for installation within sconces, wall packs and other unusually shaped fixtures. The battery packs are available in three configurations to accommodate the available fixture space.

INTERNATIONAL VOLTAGES

Select IOTA emergency ballasts are available for various international voltage standards, such as 220VAC and 240VAC input. Our international voltage model selection includes emergency ballasts for linear, compact and T5 fluorescent lamp types and are available in a full range of lumen output levels. For more information on IOTA emergency ballasts for international voltages, contact our Customer Service team.

SPECIALTY PRODUCTS

COMPATIBLE MODELS
- I-320 Reduced Profile
- I-160 High Lumen Output
- I-162 Parallel Operation
- ISL-54 and ISL-540 Slim Profile
- I-42 and I-420 for Compact Lamps
- ISD Self-Diagnostic Series

LAMPS OPERATED
Allows operation of switched fixtures from the generator or inverter supply.

INITIAL ILLUMINATION
Full light output

CASE DIMENSIONS
(ETS-20) 4.625” x 2.25” x 2.25”
(ETS) 8.0” x 1.18” x 1.125”

WEIGHT
(ETS-20) 1.0 lbs
(ETS) 1.0 lbs

LAMPS OPERATED
Most 2’-5’ single, bipin T8 & T12 HO or VHO fluorescent lamps

INITIAL ILLUMINATION
Full light output

CASE DIMENSIONS
9.5” x 2.375” x 1.5”

WEIGHT
2.5 lbs

AVAILABLE MODELS
- I-13-L (for 2-Pin Compact Lamps)
- I-42-L (for 4-Pin Compact Lamps)

BOARD DIMENSIONS
4.0” x 2.75” x 1.25”

BATTERY CONFIGURATIONS
Stick - 1.375” x 1.375” x 7.375”
Triangle - 2.4” x 1.6” x 2.5”
In-line - 1.25” x 3.875” x 2.5”

AVAILABLE VOLTAGES
- 220VAC, 50Hz
- 240VAC, 60Hz
- 120VAC, 50Hz
Select IOTA fluorescent emergency ballasts are suitable for use in Damp Location applications. Designed with extra protection against damp and humid environmental conditions, these units provide emergency light in ambient temperatures of 0° to 50° Celsius. DL units are available for linear, compact, and T5 fluorescent lamp types.

**DAMP LOCATION LISTED**

**DUAL COLOR LPTS**

The Dual-Color LPTS (Lighted Push-Button Test Switch) provided with ISD Series self-diagnostic ballasts is a single component for testing the emergency ballast and indicating the charge status of the battery. In normal operation, the LPTS will serve as a lit indication that the battery pack is being charged. When the switch is pressed, the indicator light turns off, and the fixture is forced into the emergency mode. The dual-color LED indicator is lit red when charging, and green when fully charged and in the standby mode. Leads connect to the LPTS via two spade terminal connections.

**TBTS (THREADED BODY TEST SWITCH)**

The TBTS option provides a single component for testing the emergency ballast and indicating the charge status of the battery. The specialized design of the TBTS features a compact housing ideal for limited compartment space. In normal operation, the TBTS will serve as a lit indication that the battery pack is being charged. When the switch is pressed, the indicator light turns off, and the light fixture is forced into the emergency mode. The smaller threaded body of the TBTS offers simpler installation in fixtures where limited space prohibits the installation of a typical test switch and charge indicator. The TBTS is hard-wired to the emergency ballast during installation and is secured in the fixture with an included hex nut.

**TWO-PIECE TEST SWITCH AND CHARGE INDICATOR**

The two-piece test kit configuration provides a separate test switch for wiring to the emergency ballast and a red LED charge light for indicating that the battery pack is being charged. The test switch and charge indicator can be mounted within the light fixture or remote mounted through flex to a junction box adjacent to the fixture. Connection of the emergency ballast to the charge indicator is made via spade terminals. Consult the wiring instructions of the particular emergency ballast for proper test switch placement and installation.

**OPTIONS AND FEATURES**

**ENCLOSED AND GASKETED FIXTURES**

Enclosed and Gasketed Fluorescent Fixtures provide additional protection against contaminants in dirty, dusty, damp, and wet operating environments. IOTA emergency ballasts that are indicated for use in enclosed and gasketed fixtures meet the requirements of compliance set forth by U.L. and are acceptable for integral installation within these fixtures.

**AVAILABLE UNITS**

<table>
<thead>
<tr>
<th>LINEAR</th>
<th>COMPACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-40</td>
<td>I-13</td>
</tr>
<tr>
<td>I-48</td>
<td>I-26</td>
</tr>
<tr>
<td>I-320</td>
<td>I-42</td>
</tr>
<tr>
<td>I-232</td>
<td>I-420</td>
</tr>
<tr>
<td>I-160</td>
<td>I-462</td>
</tr>
</tbody>
</table>

**ISD SERIES**

**T5 OPERATION**

**ICE SERIES**

**RoHS COMPLIANCE ON ALL MODELS**

IOTA emergency ballast products are designed and manufactured in compliance with adopted RoHS standards to minimize environmental impact of our electronic equipment through its complete life-cycle from the initial production process to end-of-life recycling. The responsible design of IOTA’s emergency ballasts restricts the presence of specified chemicals and substances by utilizing quality-driven and verified components that support both our commitment to the environment and life safety product performance.
IOTA mounting accessories provide options for remote installation of the emergency ballast and test equipment, and to ensure compliance with national and local safety requirements. For further details on IOTA mounting accessories, contact our Customer Service team.

**TMK-80, TMK-32 AND TMK-ISL**

Use the TMK accessory when a unit is mounted on top of the fixture. To avoid exposed wiring when emergency battery packs are top-mounted, the TMK is used to cover the wiring that goes from the battery pack into the fixture. TMK models are available for standard profile (TMK-80), reduced profile (TMK-32), or slim profile (TMK-ISL) units.

- TMK-80 - 2.5” x 2.5” x 1.5”
- TMK-32 - 2.5” x 2.2” x 1.15”
- TMK-ISL - 2.5” x 1.18” x 1.15”

**TBMK MOUNTING KIT**

Use the TBMK in instances where the battery pack cannot be mounted on the light fixture, such as with downlight fixtures. The battery pack is mounted on the TBMK, which is then mounted on the T-bars of the ceiling grid. The battery pack is secured to the TBMK with mounting clips. Wiring is then run to the fixture via flexible conduit. The TBMK can accept any size IOTA emergency battery pack, and can also be used in conjunction with the RME1 remote mounting enclosure.

**KIT CONSISTS OF:**

- (2) 2-ft Mounting T-Bars
- (4) Mounting Clips

**REMOTE TEST KIT**

The Remote Test Kit (RTK) allows for remote mounting of the test switch and indicator light. The kit consists of 3 feet of flex, the junction box containing the test switch and charge indicator, and faceplate. Also available with TBTS test accessory (TBTS-RTK).

When ordering, specify which IOTA models are being equipped with RTK accessories to ensure component compatibility.

**RME1 REMOTE MOUNTING ENCLOSURE**

The RME1 enclosure is the perfect size to accept most IOTA non-flexed battery packs for remote mounting. The emergency battery pack is secured within the enclosure and wiring is routed through the 2 feet of flexible conduit of the RME1 to the fixture.

**ENCLOSURE DIMENSIONS**

- 16.375” x 3.0” x 3.0”
The Lumen Reference Chart is your guide in selecting the right IOTA emergency ballast for your designated lamp type and desired output level. Many IOTA units feature lamp selector leads which will optimize the lumen output of the designated lamp(s) when operating during an emergency. Refer to the installation instructions of the specific IOTA unit to determine if the selector leads should be connected or disconnected to achieve the best performance. For questions regarding particular lamps, contact IOTA Customer Service.
**SLIM PROFILE**
For narrow ballast compartments

**SELF-DIAGNOSTICS AND COLD WEATHER**
Automatic Self-Testing Units and Outdoor Battery Packs

**PARALLEL OPERATION**
Emergency illumination even if one lamp is inoperable.

### IOTA MODEL

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>18W Long Compact</td>
<td>710</td>
<td>500</td>
<td>850</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24W Long Compact</td>
<td>600</td>
<td>1120</td>
<td></td>
<td></td>
<td>1200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24W Long Compact</td>
<td>1120</td>
<td>1120</td>
<td>675</td>
<td>1025</td>
<td>650</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25W Long Compact</td>
<td>625</td>
<td>1120</td>
<td>1100</td>
<td>1525</td>
<td>2300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28W Long Compact</td>
<td>625</td>
<td>1120</td>
<td>1100</td>
<td>1525</td>
<td>2300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30W Long Compact</td>
<td>935</td>
<td>350</td>
<td>570</td>
<td>740</td>
<td>600</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30W Long Compact</td>
<td>1125</td>
<td>1800</td>
<td></td>
<td></td>
<td>1800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36W Long Compact</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36W Long Compact</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
<td>1120</td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40W Long Compact</td>
<td>625</td>
<td>1120</td>
<td>1100</td>
<td>1525</td>
<td>2300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55W Long Compact</td>
<td>1100</td>
<td>1100</td>
<td>1600</td>
<td></td>
<td>650</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
IOTA Engineering is dedicated to providing products that meet the standards our customers demand as well as the superior service they deserve.

All IOTA products receive 100% quality inspection before shipment to ensure proper and satisfactory operation. IOTA warranties all emergency battery packs in the continental United States and Canada from defects in materials or workmanship under normal use for five years from date of retail purchase and will repair or replace any IOTA product found to be defective in materials or workmanship free of charge.

For additional information on IOTA’s fluorescent emergency ballasts and other emergency lighting solutions, visit us at www.iotaengineering.com. Our website features the latest up-to-date information for comparing models, specifying products, or assisting with installation. Our online Technical Library puts you one click away from dozens of IOTA Specification Sheets and Installation Manuals, in addition to an extensive collection of product wiring diagrams – all in PDF format for easy printing. And sign up for news e-mail to stay current on the latest in product offerings and design enhancements for your emergency lighting options! Need some additional assistance? You can easily contact your Customer Service Representative from our IOTA Contacts page. Bookmark us at www.iotaengineering.com!