FIELD INSTALLABLE FLUORESCENT BATTERY PACK
FOR COMPACT FLUORESCENT LAMPS
MODEL PSDL3

CAUTION: For safety and proper operation, read and follow instructions carefully before installation.

WARRANTY
FIVE-YEAR WARRANTY
This fixture is guaranteed to perform to our customers’ complete satisfaction for a period of five years from date of invoice. Our guarantee covers any defect in manufacturing, provided the defect develops under normal and proper use. This liability does not include lamps, and extends only to replacement of the defective part and labor charges for correction of the defect by repair or replacement. These labor charges will be honored by the factory only with prior written approval from our Post Sales Service Department.

READ AND FOLLOW ALL SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS: MAY RESULT IN DEATH, SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE – For your protection, read and follow these warnings and instructions carefully before installing or maintaining this equipment. These instructions do not attempt to cover all installation and maintenance situations. If you do not understand these instructions or additional information is required, contact Lithonia Lighting or your local Lithonia Lighting distributor.

WARNING: RISK OF ELECTRIC SHOCK – NEVER CONNECT TO, DISCONNECT FROM OR SERVICE WHILE EQUIPMENT IS ENERGIZED.

WARNING: RISK OF FIRE – Lamps are hot. Keep combustibles material away from hot parts. Observe lamp manufacturer’s warnings, recommendations and restrictions on lamp operation and maintenance. Make sure lamps are correctly installed.

WARNING: DO NOT USE ABRASIVE MATERIALS, OR OTHER SOLVENTS. USE OF THESE SUBSTANCES MAY DAMAGE FIXTURE, WHICH MAY RESULT IN PERSONAL INJURY.

WARNING: RISK OF PERSONAL INJURY – This product may have sharp edges. Wear gloves to prevent cuts or abrasions when removing from carton, handling, installing and maintaining this product.

WHERE APPLICABLE
• Before wiring to power supply, turn off electricity at fuse or circuit breaker.
• Disconnect A.C. power and unplug battery before servicing.
• Consult your local building code for approved wiring and installation.
• Do not use outdoors.
• Do not let power supply cord touch hot surfaces.
• Do not mount near gas or electric heater.
• Do not install a damaged fixture.
• This product must be installed in accordance with the applicable installation codes and ordinances.
• Proper grounding is required to ensure personal safety. (WHERE APPLICABLE)
• All service shall be performed by qualified service personnel. This product must be installed and maintained in accordance with the applicable installation codes by a person familiar with the construction and operation of the product and the hazards involved.
• Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
• The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
• Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

PARTS DESCRIPTION
1. Plenum-rated TS/PL cable
2. Lamp Selector
3. Test Switch/Pilot Light (TS/PL)
4. PSDL3
5. Mounting Clip
6. Label (TS/PL)
7. TS/PL Connector
8. External Wireway Cover
9. Screw Clamp Flex Connector (3/8") (not supplied)
10. Cable Bushing
11. Flex Conduit
12. Conduit Connector
13. Knockout for PSSD or ELA PSPRSB Module

IMPORTANT SAFEGUARDS
## INSTALLATION

### IMPORTANT NOTES:

1. Not compatible with low mercury compact fluorescent lamps.
2. Unit can be wired into building circuit in two ways: supplied by night light circuit designed to be permanently energized or wired as a switchable unit. Switchable fixtures require that an unswitched circuit supply the battery charger and a switched circuit supply the fixture ballast. This permits lamps to be turned off without affecting the charger. (Charger will keep batteries at full charge).
3. Make sure that branch circuit feeds are derived from a common phase for both normal lighting ballast and PSDL3 prior to installation.
4. Damage to battery will occur if the Test Switch/Pilot Light is connected for a prolonged period of time without AC power provided.
5. Before initial testing or after discharge, allow 24 hours to recharge battery.
6. **CAUTION:** A potential electrical shock hazard exists even when AC power supply has been turned off. Disconnect Test Switch/Pilot Light connector before servicing. Test Switch/Pilot Light to be left disconnected until ballast and lamp leads are connected.

### INVERTER INSTALLATION AND WIRING

1. Position PSDL3 (4) on optional mounting tray kit ELA PSDMT or other suitable mounting tray or channel (not provided) and fasten securely through mounting slots (see Fig. 1).

2. Feed PSDL3 flex conduit (11) through corresponding hole in external wireway cover (8). Attach appropriate conduit connector (9) (not provided) as shown (Fig. 2).

3. Refer to appropriate wiring diagram. Connect unit to ballast and lamp leads per wiring diagram. Note: A 7/8" dia. conduit entry hole may be required to access lamp/ballast and AC power wires.

4. Route TS/PL cable (1) through conduit connector (9) in external wireway cover (8). Feed TS/PL connector (7) through conduit connector, slide cable bushing (10) into place and tighten conduit connector clamp (see Fig. 3).

5. Connect test switch/pilot light connector (7). Position external wireway cover (8) over PSDL3 (4) and secure cover to mounting plate or channel (not provided) using screw (see Fig. 4).
REFLECTOR MOUNTING:

See Figure 5.

1. TS/PL may be mounted in a downlighting reflector. Make sure to mount the test switch pilot light where it is visible both in an ON and OFF position and as high up on the reflector as possible. Drill or punch a 1/2" diameter hole in the downlighting reflector. A center-punched drilling point is recommended.

2. Once drilled, use sand paper to smooth rough edges around the hole.

3. Insert one side of TS/PL into hole from back of reflector and then snap other side into place. Slide mounting clip firmly onto TS/PL mounting post (see Fig. 5).

NOTE:
If unable to mount TS/PL in reflector, a remote mounting kit can be ordered, ELA TSPLP or ELA TSPLP SD (for self-diagnostics) accessory.

INSPECTION AND MAINTENANCE

NOTE: Emergency lighting systems should be tested as often as local codes require, or at least monthly, to insure that all components are operational. Perform all test required by local codes.

A. Check equipment rating to make certain that fixture will receive proper line voltage.

B. NORMAL OPERATION: Pilot light (LED) should be on, indicating that charging circuitry is functioning properly. If pilot light does not operate, make certain that:

1. Test switch/pilot light connector is properly connected.

2. AC power is on.

3. Voltage on branch circuit to inverter charger is at rated line voltage (120 or 277). If no line voltage can be measured, locate problem in branch circuit and correct.

C. TO TEST: Press test switch. Pilot light (LED) should turn off and lighting fixture should come on operating one lamp at a reduced light output.

NOTE: Allow battery to charge 24 hours before initial testing, and 168 hours to fully charge battery.

NOTE: Battery packs are not field serviceable units.
## IMPORTANT NOTES:

1. TYPICAL SCHEMATICS PROVIDED. MAY BE USED WITH OTHER BALLASTS TYPES. CONSULT WITH FACTORY FOR OTHER WIRING DIAGRAMS.
2. EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT.

### LAMP SELECTOR (ORANGE WIRES) TABLE-PSDL3

<table>
<thead>
<tr>
<th>LAMP DIAMETER</th>
<th>BASE TYPE</th>
<th>POWER (LENGTH)</th>
<th>NUMBERS OF LAMPS EMERGENCY</th>
<th>ORANGE CONNECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;, 1-1/4&quot;, 1-1/2&quot; (T8, T10, T12)</td>
<td>SINGLE OR BI PIN</td>
<td>17-24W</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>1&quot;, 1-1/4&quot;, 1-1/2&quot; (T8, T10, T12)</td>
<td>SINGLE OR BI PIN</td>
<td>32-40W (2'-4')</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>1&quot;, 1-1/4&quot;, 1-1/2&quot; (T8, T10, T12)</td>
<td>SINGLE OR BI PIN</td>
<td>40-215W (5'-8')</td>
<td>1</td>
<td>OPEN</td>
</tr>
<tr>
<td>LONG COMPACT</td>
<td>4-PIN (G11)</td>
<td>18-39W</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>LONG COMPACT</td>
<td>4-PIN (G11)</td>
<td>40-50W</td>
<td>1</td>
<td>OPEN</td>
</tr>
<tr>
<td>COMPACT</td>
<td>4-PIN</td>
<td>13-26W DTT (QUAD TUBE)</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>COMPACT</td>
<td>4-PIN</td>
<td>18-26W TRT (TRIPLE TUBE)</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>COMPACT</td>
<td>4-PIN</td>
<td>32W TRT (TRIPLE TUBE)</td>
<td>1</td>
<td>CLOSED</td>
</tr>
<tr>
<td>COMPACT</td>
<td>4-PIN</td>
<td>42W TRT (TRIPLE TUBE)</td>
<td>1</td>
<td>OPEN</td>
</tr>
</tbody>
</table>

### TWO LAMP EMERGENCY OPERATION

#### A TWO FOUR-PIN COMPACT LAMP RAPID START BALLAST

#### B TWO LAMP RAPID START BALLAST

[Diagram of wiring connections]

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WIRING DIAGRAMS

**I. ONE FOUR-PIN COMPACT LAMP RAPID START BALLAST**

**J. TWO FOUR-PIN COMPACT LAMP RAPID START BALLAST**

**K. TWO FOUR-PIN COMPACT LAMP, TWO RAPID START BALLAST**

FOR EMERGENCY OPERATION ONLY

**L. ONE FOUR-PIN COMPACT LAMP WITHOUT AC BALLAST**

**M. ONE LAMP WITHOUT AC BALLAST**

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