



Catalog Number	
Notes	Type

## FEATURES AND SPECIFICATIONS

### INTENDED USE

Factory- or field-install inside or outside (field only) fluorescent fixture to operate lamp(s) at an initial output of 10% to 95% of rated lamp lumens, providing optimum, glare-free illumination for 90 minutes upon interruption of normal power.

### CONSTRUCTION

- Black, 20-gauge steel, permanently sealed housing. Dual-voltage input capability (120V or 277V).
- Polarized quick-connect light/switch assembly simplifies installation (not included on the PSDL1 2LP).
- Remote test plate with pilot light and test switch standard for PSDL1 2LP.
- Patent-pending integrated test switch/pilot light that requires only one-hole drilling (PSDL3). U.S. Patent No. (PSDL3) 6,522,147.

### PERFORMANCE

- PSDL1 operates one two-pin 18W or 26W quad-tube compact fluorescent lamp.
- PSDL1 2LP operates two (2) two-pin (13-26W) quad-tube fluorescent lamps.
- PSDL2 operates one two-pin 7W, 9W, or 13W quad-tube compact fluorescent lamp.
- PSDL3 operates one or two four-pin twin-tube (9-13W), triple-tube (18-42W\*), quad-tube (13-26W) or 2D compact fluorescent lamp(s). \*42W triple-tube is one lamp only. Low-glare, shadow-free illumination provides excellent visibility for safe building evacuation.

### BATTERY

- Sealed, maintenance-free, high-temperature nickel-cadmium battery.
- Ensures long life over a wide range of temperatures.
- Polarized battery connector simplifies maintenance and prevents charger damage due to improper connection.
- Pilot light and test switch provide visual and manual means of monitoring system operation.
- Automatic battery recharge after 90-minute discharge.

### ELECTRONIC

- Constant-current series resistor-type charger.
- High-efficiency push-pull inverter is the most effective method of converting DC power to AC power. It provides maximum light output, battery life and reliability.

## ORDERING LOGIC

Designation
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- PSDL1** Bi-pin (18-26W) battery pack  
**PSDL2** Bi-pin (7-13W) battery pack  
**PSDL3** Four-pin (9-42W) battery pack

Options
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- 2LP** Two-lamp operation (PSDL1 only)  
**DL** UL listed for damp location<sup>1</sup>  
 0° – 50° C (32° – 122° F)  
**SD** Self-diagnostics<sup>1</sup>

Accessories <sup>2</sup>
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- Order as separate item.  
 ELA PSDMT External mounting tray  
 ELA RTS Remote test plate with pilot light and test switch (PSDL1 2LP only)  
 ELA TSPLP Remote or replacement test switch/pilot light; mounts up to 25' away from fixture  
 ELA TSPLPSD Remote or replacement test switch/pilot light for self-diagnostics; mounts up to 25' away from fixture<sup>1</sup>  
 PSSD Field-installable self-diagnostics module<sup>1</sup>  
 ELA PSMKSD Self-diagnostics mounting kit (must be ordered separately to install the PSSD on a PSDL3 product)

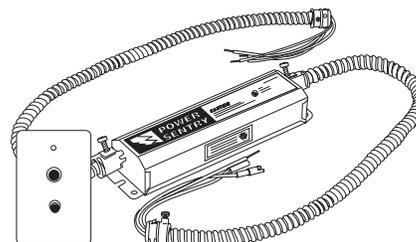
#### NOTES:

Factory installation is available on most compatible fluorescent fixtures. Consult EL downlighting spec sheet for details. Remotes can be mounted up to 25' away from fixture.

<sup>1</sup> - Only available on the PSDL3.

## Compact Fluorescent Battery Backup

# PSDL



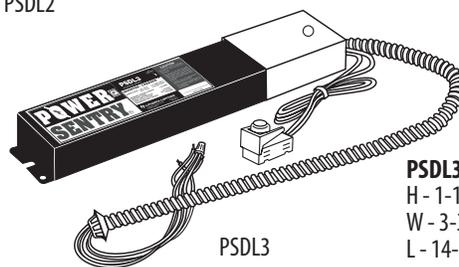
PSDL1 and PSDL2

### PSDL1 and PSDL2

H - 1-1/2"  
 W - 2-3/8"  
 L - 10-5/8"

### PSDL1 2LP

H - 1-1/2"  
 W - 2-2/5"  
 L - 12"



PSDL3

### PSDL3

H - 1-11/16"  
 W - 3-3/16"  
 L - 14-1/2"

### INSTALLATION

- Unit can be remote mounted up to half the distance recommended by the ballast manufacturer or 50 feet, whichever is less.
- Optional external mounting tray provides quick and flexible mounting means for most applications.
- Unit wired into building circuit in two ways: on night light circuit (permanently energized) or on switchable circuit (unswitched circuit to the battery charger and switched circuit to the fixture ballast). Unit will strike normally on lamp.

### LISTING

- UL listed. Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards.

### WARRANTY

Three-year total customer satisfaction warranty. (For complete details, see warranty sheet in Product Selection Guide.) PSDL3 includes a five-year total customer satisfaction warranty.



# PSDL Compact Fluorescent Battery Backup

## SPECIFICATIONS

### BATTERY

Sealed Nickel-Cadmium

	Voltage	Shelf life <sup>1</sup>	Expected life <sup>1</sup>	Maintenance	Optimum temperature <sup>2</sup>
PSDL1 PSDL2	3.6	3 yrs.	10 yrs.	none	32–100°F (0–38°C)
PSDL3	6	3 yrs.	10 yrs.	none	32–100°F (0–38°C)

### NOTES:

- At 77°F (25°C).
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. Consult factory for detailed information.
- Periodic system status test recommended.

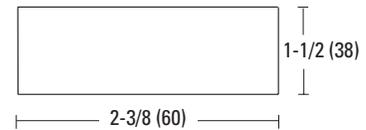
## ELECTRICAL

	Volts	Maximum Amps	AC input Watts
PSDL1/PSDL2	120	.275	3.5
	277	.255	3.5
PSDL1 2LP	120	.27	3.5
	277	.27	3.5
PSDL3	120	.27	3.3
	277	.25	3.2

## MOUNTING

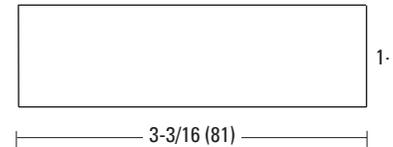
-All dimensions are inches (millimeters).

### PSDL1 and PSDL2



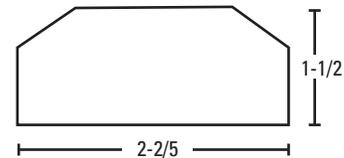
Cross section end view  
Length: 10-5/8 (270)  
Shipping weight: 2.14 lbs. (.90 kgs.)

### PSDL3



Cross section end view  
Length: 17-1/8 (435)  
Shipping weight: 5.0 lbs. (2.3 kgs.)

### PSDL1 2LP



Cross section end view  
Length: 12 (304)  
Shipping weight: 3.0 lbs. (1.4 kgs.)

## LAMP COMPATIBILITY & EMERGENCY OUTPUT

Catalog Number	Lamp Description	Lamp Base	Philips	Osram/Sylvania	GE	Lamp Manufac. Initial Lumen Rating	Initial Lumens Lamp 1	Initial Lumens Lamp 2 <sup>1</sup>
PSDL1/ PSDL2P	Quad-Tube (2pin)	G23-4	"PLC Lamps" PL-C 13W/USA 10mm/13W	"Dulux D" CF13DD	"Double Biax" F13DBX23T4	OS-780 GE-810 PL-860	*	500
	Super Compact 10mm Quad-Tube (2-pin)	G24d-2	"PLC Lamps" PL-C 18W 10mm/18W	"Dulux D" CF18DD	"Double Biax" F18DBXT4	OS & PL-1250 GE-1150	675	650
		G24d-3	"PLC Lamps" PL-C 26W 10mm/26W	"Dulux D" CF26DD	"Double Biax" F26DBXT4	OS & PL-1800 GE-1710	925	950
PSDL2	Compact Twin-Tube (2-pin)	G23	"PL Lamps" PL-S7W	"Dulux S" CF7DS	"Biax" F7BX	OS & PL-4 00 GE-400	350	*
		G23	"PL Lamps" PL 9	"Dulux S" CF9DS	"Biax" F9BX	OS-580 GE-600	500	*
		GX23	"PL Lamps" PL13	"Dulux S" CF13DS	"Biax" F13BX	OS-800 GE-825	650	*
	Quad-Tube (2pin)	GX23-2	"PLC Lamps" PL-C 13W/USA 10mm/13W	"Dulux D" CF13DD	"Double Biax" F13DBX23T4	OS-780 GE-810 PL-860	450	*
PSDL3 <sup>2</sup>	Compact Twin-Tube (4-pin)	2G7	*	"Dulux S/E" CF9DS/E 9W	*	580	NA	NA
		2GX7	*	"Dulux S/E" CF13DS/E 13W	*	800	NA	NA
	Super Compact	GX24q-1	"PL Cluster" PL-C 13W/4P 13W	"Dulux D/E" CF13DD/E/8 13W	"Double Biax" F13DBX/4P	900	580	635
	Quad-Tube (4-pin)	GX24q-2	"PL Cluster" PL-C 18W/4P 18W	"Dulux D/E" CF18DD/E/8 18W	"Double Biax" F18DBX/4P	OS & PL-1250 GE-1150	675	750
		GX24q-3	"PL Cluster" PL-C 26W/4P 26W	"Dulux D/E" CF26DD/E/8 26W	"Double Biax" F26DBX/4P	OS & PL-1800 GE-1710	790	900
	Super Compact	GX24q-2	"PL Triple" PL-T 18W/4P 18W	"Dulux T/E" CF18DT/E/IN/8 18W	"Triple Biax" F18TBX/SPX	1200	595	615
	Triple-Tube (4-pin)	GX24q-3	"PL Triple" PL-T 26W/4P 26W	"Dulux T/E" CF26DT/E/IN/8 26W	"Triple Biax" F26TBX/SPX	1800	412	749
		GX24q-3	"PL Triple" PL-T 32W/4P 32W	"Dulux T/E" CF32DT/E/IN/8 32W	"Triple Biax" F32TBX/SPX	OS & PL-2400 GE-2200	657	1038
GX24q-3		"PL Triple" PL-T 42W/4P 42W	"Dulux T/E" CF42DT/E/IN/8 42W	*	3200	948	NA	

### NOTES:

- NA = Not available.
- When using the PSDL3 with 26–42W triple-tube lamps, the Triad/Universal ballast C242 UNV BE is recommended. Inconsistent operation and performance may be experienced with the Advance ballast ICF-2S42-M2-LD and is therefore not recommended for use with PSDL3 product.