

Catalog Number	
Notes	Type

## FEATURES & SPECIFICATIONS

### INTENDED USE

Specification-grade fluorescent battery pack operates one or two lamps (4' or shorter) or one 8' lamp. Factory or field installed within fluorescent fixture ballast channel. Upon interruption of normal power battery pack automatically strikes and operates lamps at reduced light output, providing glare-free illumination for 90 minutes.

### CONSTRUCTION

Durable thermoplastic/metal housing resists impact, scratches, and corrosion. UL-94V-0 flame rating.

Reduced-profile footprint fits in the tightest applications.

Polarized quick-connect pilot light/test switch assembly simplifies installation.

Pilot light and test switch provide visual and manual means of monitoring system operation.

**U.S. Patent No.** 6,522,147.

Lamp selector switch optimizes single or dual lamp performance.

Operates one or two 2' – 4' fluorescent T8 – T12 lamps, one 2' – 4' fluorescent T5, T8, or T12, HO, long compact (biac) or one 6' – 8' fluorescent T8 – T12 for 90 minutes. Compatible with T8 and T5 electronic, T12 magnetic, instant start, rapid start, and slimline ballasts. New AC ballasts with EOL (end of life) protection may require EOL accessory (ELA PSPRSB) to ensure normal AC mode operation.

### ELECTRICAL

Dual-voltage input capability (120V or 277V).

Constant current-type charger. Capacitive input circuit provides high efficiency and reliable operation.

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.

Battery: Sealed, maintenance-free, high-temperature nickel-cadmium battery. Ensures long life over a wide range of temperatures.

Automatic battery recharge after 90-minute discharge. Fully charged after 72 hours.

### INSTALLATION

Patent-pending Quick-Disconnect connector system allows for quick and easy replacements at end of life without rewiring.

Mounts concealed within fixture wireway for clean appearance and protection against vandalism; or mounts on outside of fixture housing if internal space is limited. Two 1/2" holes in fixture channel permit mounting of test switch/pilot light behind fixture lens.

External mounting requires a remote mounting enclosure (ELA PSRME).

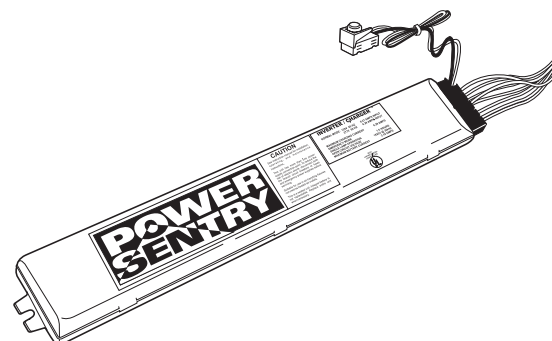
Compact size (13-5/16" L x 2-3/16" W x 1-3/16" H) fits in a variety of fluorescent fixtures: troffers, volumetric recessed, industrials, commercials and strips.



**1400 Lumen Reduced-Profile**

**Fluorescent Battery Packs**

# PS1400QD



Unit wires two ways: on night light circuit (permanently energized) or on switchable circuit (unswitched circuit to battery charger and switched circuit to the fixture ballast). Unit will strike normally off lamp.

Unit mounting centers are identical to a standard ballast.

### LISTING

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

Standard unit is UL approved for installation in sealed and gasketed fixtures.

See PS1400DW specification sheet for product UL approved for use in wet and damp location fixtures.

### WARRANTY

Five-year warranty.

## ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: PS1400QD SD

PS1400QD	
Series	Options
<b>PS1400QD Battery pack</b>	<b>SD Self-diagnostics</b> <sup>1,2,3</sup>

### NOTES:

- 1 Self-diagnostics (PSSD) module ships separately. See PSSD Inverter Accessories spec sheet for details on self-diagnostics.
- 2 Compatible with lamp EOL protection ballasts.
- 3 ELA PSPRSB not required with SD option.
- 4 See Accessories specification sheets for details on other compatible devices ELA-RTS-TSPLP-PSTS-PSPRSB and ELA-PSMK-PSMKSD-PSDMT-PSRME.

### Accessories<sup>4</sup>

Order as separate item.

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
ELA PSMKSD	External mounting kit for self-diagnostics module
ELA PSRME	External mounting box enclosure PS300QD, PSQ500QD, PS600QD and PS1400QD
ELA PSPRSB	Field-installable interface for enhanced compatibility with lamp EOL protection ballasts <sup>3</sup>
<b>PSSD</b>	<b>Field-installable self-diagnostics module</b>

# PS1400QD Fluorescent Battery Packs

## SPECIFICATIONS

### BATTERY

#### Sealed Nickel-Cadmium

Voltage	Shelf life <sup>1</sup>	Expected life <sup>1</sup>	Maintenance	Optimum temperature <sup>2</sup>
9.4	3 years	7-9 years	none <sup>3</sup>	32-100°F

Notes:

- At 77°F.
- 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.
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.\*

### ELECTRICAL

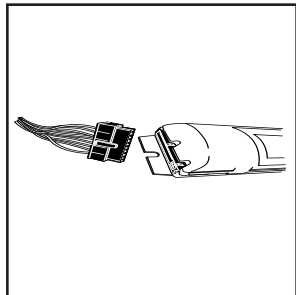
Volts	Maximum AC input	
	Amps	Watts
120	.27	3.3
277	.29	3.2

### LAMP COMPATIBILITY

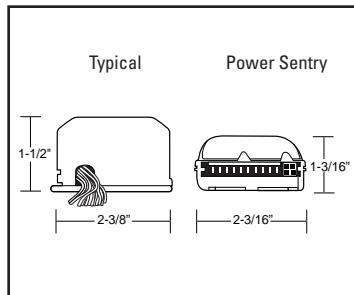
Lamp Type	Wattage	Emergency Operation
24" - 48" T5	14 - 28	■
24" - 48" T5HO	24 - 54	■
U-Lamp T8	16 - 31	■ ●
24" - 48" T8	17 - 32	■ ●
60" - 96" T8	40 - 59	■
Circline T9	20 - 40	■
U-Lamp T12	34 - 40	■ ●
24" - 48" T12	20 - 40	■ ●
60" - 96" T12	50 - 75	■
24" - 48" HO T12	35 - 60	■
60" - 96" HO T12	70 - 110	■
24" - 48" VHO T12	74 - 115	■
60" - 96" VHO T12	135 - 215	■
Twin-Tube (4-pin)	9 - 13	■
Quad-Tube (4-pin)	13 - 26	■
Twin-Tube (4-pin)	18 - 55	■
Triple-Tube (4-pin)	18 - 32	■ ●
Triple -Tube (4-pin)	42	■
2D	28-38	■

- One-lamp emergency operation for 1 - 4 lamp ballasts.
- Two-lamp emergency operation for 2 - 4 lamp ballasts.

### KEY FEATURES



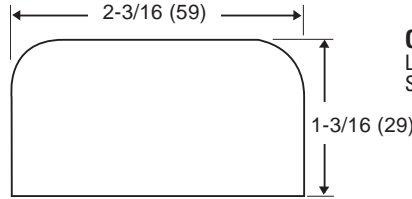
New Quick-Disconnect wiring system



New reduced-profile design fits in the tightest of applications

### MOUNTING

All dimensions are inches (millimeters).



#### Cross section end view

Length: 13-5/16 inches  
Shipping weight: 2.0 lbs (0.68 kg).

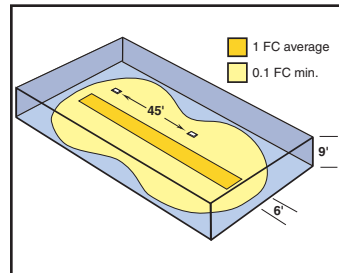
### RECOMMENDED SPACING

#### One Footcandle Average Spacing Guidelines PS1400QD

	2GT8 3 32	2SP8 3 32	2PM3N 3 32	2AV 3 32	2PMO 3 32
Open Office	47	47	45	47	33*
Corridor 2x4	47	57	53	59	43
Open Office	26	47	38	47	26*
Corridor 2x2	58	54	49	53	47

\* Limited spacing due to 40:1 max/min ratio requirement by NFPA 101.

### Open Office Spacing



Fluorescent Battery Pack: PS1400QD  
Fluorescent Fixture: 2x4 Parabolic  
Lamp Type: F32T8

Meets Life Safety Code standard minimum illuminance of 0.1FC and average illuminance of 1.0 FC. Assumes 3 T8 lamps in each fixture, 6-foot wide path of egress, ceiling height 9' and reflectances of 80/50/20.

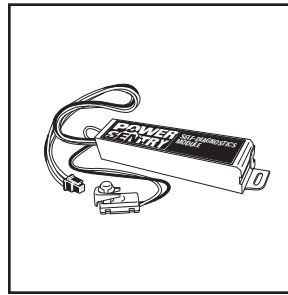
### PS1400QD Initial Lumen Output Table

Lamp Tested	1 Lamp	2 Lamps
F32T8	1453	1422
CF40	920	NC
FBQ31T8	1319	1294
F96T8HO	1595	NC
F28T5	890	NC
F54T5	940	NC

NC = Not compatible

Initial lumen output measured at 25°C ambient temperature.

### KEY OPTIONS



Self-diagnostics module