



Catalog Number
Notes
Type

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Specification grade emergency ballast to operate fluorescent lamps in emergency conditions. Factory installed inside the fixture or field installed outside the fixture to operate fluorescent lamps at a reduced light output providing illumination for 90 minutes when normal power failure occurs.

**CONSTRUCTION** — Black, 20-gauge steel, sealed housing. Housing provides extra room for wire routing in ballast channel.

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

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

Patent pending integrated test switch pilot light that requires only one-hole drilling.

U.S. Patent No. 6,522,147; 5,814,971; 6,577,136

**PERFORMANCE** — Compatible with electronic, rapid start, instant start, slimline, preheat or trigger start ballast in standard or energy-saving configurations for 90 minutes emergency back-up. See compatibility chart on page 2.

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

**BATTERY** — Sealed, maintenance-free, high-temperature nickel-cadmium battery. Ensures long life over a wide range of temperatures. 24-hour battery recharge after 90-minute discharge. External battery connectors allows emergency ballast to be disabled for maintenance and installation. Pilot light and test switch provide visual and manual means of monitoring system operation.

**ELECTRONIC** — Constant-current series resistor-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.

**INSTALLATION** — 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 ½" holes in fixture channel permit mounting of test switch/pilot light behind fixture lens. External mounting requires two accessory kits ELA PSMK. Kit adds 6" maximum to overall length. Unique size (13-5/16" L x 2-3/8" W x 1-5/8" H) fits a variety of fixtures/luminaires per the compatibility chart on page 2.

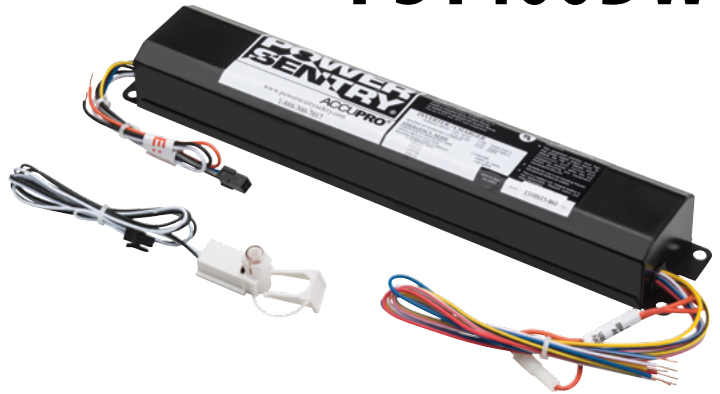
**LISTING** — UL listed. Damp location listed. Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. UL approved for installation in sealed and gasketed fixtures. UL approved for installation in wet and damp location listed fixtures, 0-50°C (32-122°F). (Note: DW does not make the emergency ballast suitable for mounting outside the fixture in a wet location application.)

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

## Fluorescent Battery Backup

# PS1400DW



### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** PS1400DW

Series <sup>1</sup>	Options
PS1400DW      Emergency Ballast	SD      Self-diagnostics <sup>2,3</sup>

Accessories <sup>1</sup> : Order as separate catalog number.	
ELA TSPLP	Remote or replacement test switch pilot light; mounts up to 25' away from fixture <sup>4</sup>
ELA TSPLPSD	Remote or replacement test switch pilot light for self-diagnostics; mounts up to 25' away from fixture <sup>4</sup>
ELA PSMK	External mounting kit; two required <sup>5</sup>
ELA PSMKSD	External mounting kit for self-diagnostics module <sup>5</sup>
ELA PSRME	Remote mounting enclosure <sup>5</sup>
PSSD2	Field-installable self-diagnostics module <sup>2</sup>
ELA PSRSB	Field-installable interface for enhanced compatibility with lamp EOL protection ballast <sup>3,4</sup>

### Notes

- DW does not make the emergency ballast suitable for mounting outside the fixture in a wet location application. Is not CEC Title 20 California compliant.
- Self-diagnostics (PSSD2) module ships separately. See [PSSD2](#) spec sheet for more details.
- ELA PSRSB accessory not required with self-diagnostics module.
- See spec sheet [ELA-RTS-TSPLP-PSTS-PSRSB](#) for more information.
- See Accessories specification sheet [ELA-PSMK-PSMKSD-PSDMT-PSRME](#) for more information.

# PS1400DW Fluorescent Battery Backup

## SPECIFICATIONS

BATTERY				
Sealed Nickel-Cadmium				
Voltage	Typical Shelf life <sup>1</sup>	Typical life <sup>1</sup>	Maintenance <sup>2</sup>	Temperature range <sup>3</sup>
9.4V	3 years	10 years	none	32–100° F

### Notes

- At 77°F.
- All life safety equipment, including emergency lighting for path of egress must be tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required testing could jeopardize the safety of occupants and will void all warranties.
- Ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. Consult factory for detailed information.

## ELECTRICAL

### ELECTRICAL

Volts	Maximum AC Input Amps	Watts
120	.27	3.3
277	.25	3.2

### LAMP COMPATIBILITY

Lamp Type	Wattage	PS1400DW
Lumens		800-1500
24"-48" T5	14-28	1
24"-48" T5HO	25-54	1
U-Lamp T8	32	1, 2
24"-48" T8	17-32	1, 2
48"-60" T8	32-40	1, 2
48" T8HO	44	1
96" T8HO	86	1
PL Twin-Tube (4-Pin)	13	1
PL Quad-Tube (4-Pin)	13-26	1, 2
Triple-Tube (4-Pin)	18-32	1, 2
Triple-Tube (4-Pin)	42	1
Long Compact (4-Pin)	18-40	1

### Notes:

\* Based on the lumen output of the lamp; provides full light output.

- One-lamp emergency operation for 1, 2, 3 or 4-lamp ballasts.
- Two-Lamp emergency operation for 2, 2 or 4-Lamp ballasts.
- One-lamp, 2 hour emergency operation for 2, 3 or 4-lamp ballasts.
- 2 LP option required for 2-lamp emergency operation in fixtures with two or more lamps.

### INITIAL LUMEN OUTPUT TABLE

Type	Description	1 Lamp (lm) <sup>2</sup>	Lamps (lm)
T5T5HO	FP14/T5	800	NC
	FP24T5/HO	700	NC
	FP28T5	1450	NC
	FP54T5/HO (49W)	1100	NC
	FP54T5/HO (54W)	900	NC
T58	F17T8	850	950
	F32T8	1450	1450
	FB31T8	1400	1400
CFL	CF40	950	NC
	FT40DL28W	1050	NC

## RECOMMENDED SPACING

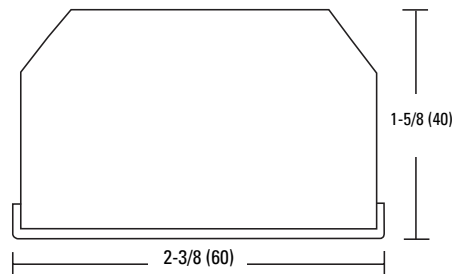
One Footcandle Average Fixture-to-Fixture Spacing Guidelines

### INITIAL LUMEN OUTPUT TABLE

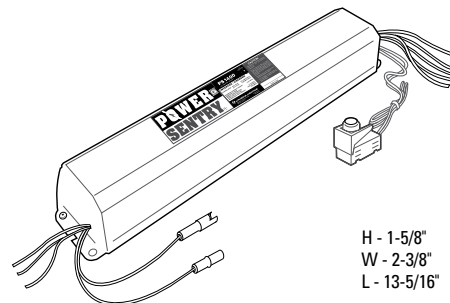
	Application	T8 Lensed Troffer	T8 Parabolic	T8 Direct/ Indirect
2x4	Open Office	47'	45'	47'
	Corrdior	57'	53'	59'
2x2	Open Office	47'	38'	47'
	Corrdior	54'	49'	53'

## MOUNTING

All dimensions are inches (millimeters)

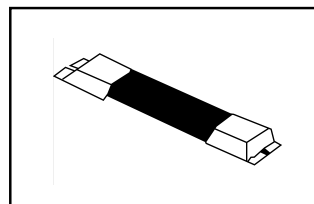


Cross section end view  
Length: 13-5/16 (338mm)  
Shipping weight: 4 lbs. (2.3 kgs.)

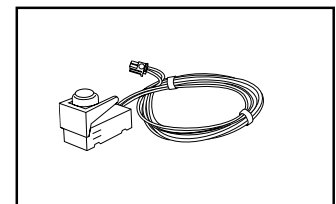


H - 1-5/8"  
W - 2-3/8"  
L - 13-5/16"

## KEY FEATURES

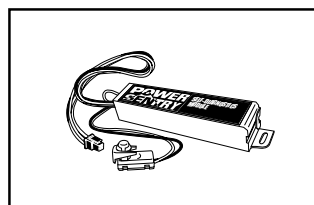


External fixture mounting  
ELA PSMK external mounting (requires 2)



Polarized quick-connect integrated  
test switch/pilot light assembly

## KEY OPTIONS



Self-diagnostics module PSSD2



PS1400DW