



FEATURES & SPECIFICATIONS

INTENDED USE — The PS1050DL multi-volt (120V thru 277V; 50-60hz) emergency LED driver is designed to provide a minimum of 90 minutes of illumination for LED luminaires during the loss of normal AC power. It is UL classified for field installation in specified luminaires and UL recognized for factory installation inside indoor, damp or sealed and gasketed wet location listed LED luminaires utilizing 10 watts maximum output power, 50 VDC maximum output voltage and an output current of 200 mA.

CONSTRUCTION

UL rated, painted steel enclosure.

Flexible metallic conduit.

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

PERFORMANCE — When normal AC power fails, the PS1050DL immediately drives the LED load at a reduced light output for a minimum of 90 minutes. When AC power is present, the emergency LED driver operates in various charging modes to ensure the sealed, maintenance-free, high-temperature nickel-cadmium batteries are fully recharged within 24 hours after a discharge and remains fully charged until the next loss of AC power. The test switch/pilot light provides visual and manual means of monitoring the system operation.

ELECTRICAL

Multi-volt input capability – 120V thru 277V; 50-60hz

Output current – 200 mA

Maximum Output Voltage – 50 VDC

Maximum Output Power – 10 watts

Maximum AC input – 290 mA and 3.3 watts

INSTALLATION — Flexible metal conduit allows for mounting inside or outside of wireway. One 1/2" hole in fixture channel permits mounting of test switch/pilot light behind fixture lens.

Compact size (15.6" L x 2.18" W x 1.18" H) fits in a variety of LED fixtures: troffers, volumetric recessed, industrials, commercials, downlights and strips

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 driver).

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

Standardized mounting centers

LISTINGS — UL recognized (pending). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards

UL 1310, Class 2 LED Emergency Driver

Standard unit is UL recognized for installation in damp or wet location sealed and gasketed listed luminaires.

Not suitable for mounting outside the luminaire in a wet location application.

Ambient temp rating 5 °C to 55 °C (41 °F to 131 °F)

UL classified for field installation in the following ABL fixture families: ACL, ALL, AVL, BLT, BZL, FSL, GTL, ICO, EVO, LDN, MSL, TMS, RTL, SBL, STL, TL, VTL, LBL and WL2.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

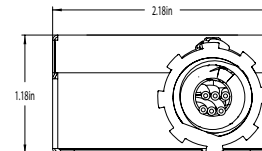
Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

Catalog Number
Notes
Type

PS1050DL

LED Emergency Battery Backup



MOUNTING

All dimensions are in inches.

Enclosure Length: 15.6"

Shipping weight: 3.1 lbs. (1.4kg)

How to Calculate Delivered Lumens in Emergency Mode

Use the formula below to determine the delivered lumens in emergency mode

Delivered Lumens = 1.25 x P x LPW

P = Output power of emergency driver. P = 10W for PS1050DL

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at [Designlight Consortium](http://DesignlightConsortium.com).

ORDERING INFORMATION

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

Example: PS1050DL

PS1050DL		Options	
Series		FIK	Field Install kit ¹
PS1050DL	Power Sentry 10W max output wattage 50V DC output voltage DL form factor	SD	Self-diagnostics ²

Accessories: Order as separate catalog number.	
ELA TSPLP	Remote or replacement test switch pilot light; mounts up to 25' away from fixture ³
ELA TSPLPSD	Remote or replacement test switch pilot light for self-diagnostics; mounts up to 25' away from fixture ³
ELA PSMKSD	External mounting kit for self-diagnostics module (2 required per module) ³
PSSD2	Field-installable self-diagnostics module ²

Notes

- 1 Only available with: ACL, ALL, AVL, BLT, BZL, FSL, GTL, ICO, EVO, LDN, MSL, TMS, RTL, SBL, STL, TL VTL, LBL and WL2.
- 2 Self-diagnostics (PSSD2) module ships separately. See [PSSD2](#) spec sheet for more details.
- 3 See [ELA-RTS-TSPLP-PSTS-PSPRSB](#) and [ELA-PSMK-PSMKSD-PSDMT-PSRME](#) spec sheets for more details.

PS1050DL LED Emergency Battery Backup

SPECIFICATIONS

BATTERY				
Sealed Nickel-Cadmium				
Voltage	Typical Shelf life ¹	Typical life ¹	Maintenance	Ambient temperature ²
9.6V	3 years	7-10 years	none ³	0-55°C (32-131° F)

Notes

- 1 At 77°F Ambient temperature, charge/discharge cycles and prolonged full discharge may reduce useful life.
- 2 Ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. Consult factory for detailed information.
- 3 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.

KEY OPTIONS

Self Diagnostics Module PSSD2



PS1050DL