



FEATURES & SPECIFICATIONS

INTENDED USE — The PS1050 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, 50VDC maximum output voltage and an output current in the range of 200mA.

CONSTRUCTION — Durable thermoplastic housing resists impact, scratches, and corrosion.

UL-94V-0 flame rating. U.S. Patent No. 6,522,147; 6,577,136; D550,154.

PERFORMANCE — When normal AC power fails, the PS1050 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 pilot light/test switch provides visual and manual means of monitoring the system operation.

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

Output current – 200mA

Maximum Output Voltage – 50 VDC

Maximum Output Power – 10 watts

Maximum AC input – 290 mA and 3.3 watts

INSTALLATION — Patented 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. One 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 LED fixtures: troffers, volumetric recessed, industrials, commercials 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 pilotlight/test switch assembly simplifies installation

Standardized mounting centers

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

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

Ambient temp ratings - 0 °C to 50 °C (32 °F to 122 °F)

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

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

Catalog Number
Notes
Type

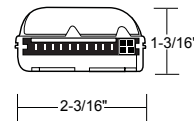
PS1050

LED Reduced-Profile
Emergency Driver



MOUNTING

All dimensions are in inches



Cross section end view

Length: 13-5/16 inches
Shipping weight: 2.0 lbs (0.68 kg).
Reduced-profile design fits in the tightest of applications

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 PS1050

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.

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.

ORDERING INFORMATION

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

Example: PS1050 PSBCED10

PS1050	Options
Series	
PS1050 Power Sentry	PSBCED10 CEC Title 20 module ¹
	SD Self-diagnostics ²
	FIK Field install kit
	FIKRE Field install kit with remote enclosure

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
ELA PSRME	External mounting box enclosure ³
ELA PSRME IC	Remote enclosure ³
PSSD2	Field-installable self-diagnostic module ²

Notes

- Not available with SD option.
- Self-diagnostics (PSSD2) module ships separately. See [PSSD2](#) spec sheet for more details.
- See [ELA-RTS-TSPLP-PTS-PSRPSB](#) and [ELA-PSMK-PSMKSD-PSDMT-PSRME](#) spec sheets for more details.

PS1050 Emergency Driver

SPECIFICATIONS

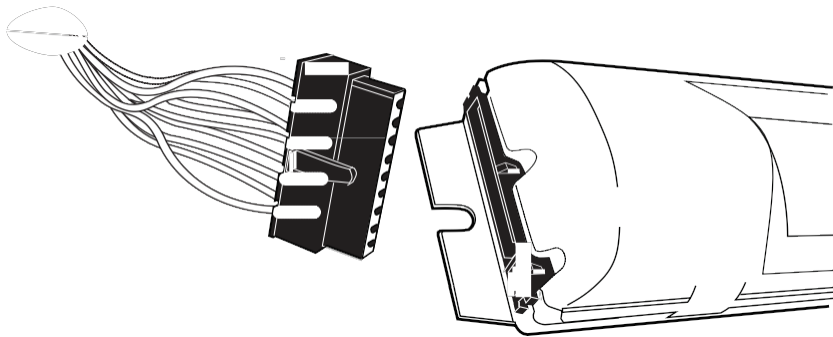
BATTERY				
Sealed Nickel-Cadmium				
Voltage	Typical Shelf life ¹	Typical life ¹	Maintenance	Ambient temperature ³
9.6V	3 years	7-10 years	none ²	0-50C (32-122° F)

Notes

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

KEY FEATURES

Quick-Disconnect wiring system



KEY OPTIONS

Self-Diagnostics Module PSSD2



PS1050