



Low Profile Emergency LED Driver Class 2 output 10 Watts Output Power

Product order number: BSL310LP (galvanized metal case)

Project:	
Type:	
Model No:	Qty:
Date:	
Notes:	

Specifications

UL RECOGNIZED

Factory Installation only (Indoor and Damp)
Output Class 2 Compliant

Illumination Time

90 Minutes

Initial Light Output

1000 Lumens @ 25°C *

Full Warranty

5 Years (NOT pro-rata)

Universal Input Voltage

120-277 VAC, 50/60 Hz

AC Input Current

65 mA maximum

AC Input Power Rating

4 W maximum

Output Voltage

15 - 52 VDC

Output Power

10.0 W initial (regulated)
NFPA-101 and NEC 700.12 compliant

Test Switch / Charging Indicator Light

Two-Wire Illuminated Test Switch (2W-ITS)**

Battery

High-Temperature, Maintenance-Free
Nickel-Cadmium Battery
7- to 10-Year Life Expectancy

Battery Charging Current

180 mA average

Recharge Time

24 Hours

Temperature Rating (Ambient)

0°C to +55°C (32°F to 131°F)

Dimensions

22.5" x 1.18" x 1.18" (572 mm x 30 mm x 30 mm)
Mounting Center 22.1" (561 mm)

Weight

2.5 lbs. (1.12 kg) - metal case without conduit

* Based on a min efficacy of 100 lumens/watt of load power

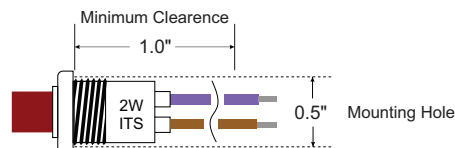
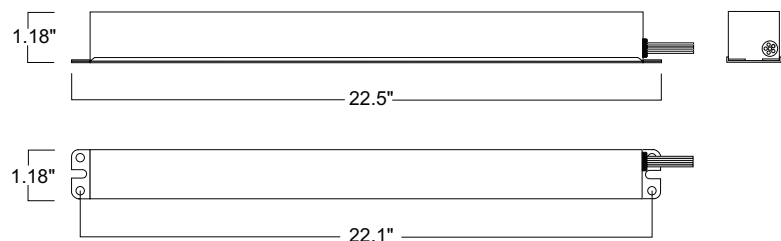
** The 2W-ITS is a Class 2 device.

Benefits:

- Compact design for low-profile/space-limited fixtures
- Controlled power for predictable discharge
- Emergency mode initial lumen output of up to 1000 lumens at 25°C *
- Universal input (120 through 277 VAC, 50/60 Hz)
- Compatible with AC drivers and LED loads rated for Class 2
- Automatic adjustment for LED load configurations within the voltage range of 15 - 52V

Dimensions

22.5" x 1.18" x 1.18" (mounting center - 22.1")



An illuminated test switch/charging indicator light is provided.

BSL310LP

Low Profile Emergency LED Driver, Class 2 Output

Lamp (YELLOW & YEL/BLK) Wiring Specification

Wire Gauge (AWG)	Maximum Remote Mounting Distance* (ft)	Maximum Wire Length** (ft)
12	52	104
14	33	66
16	20	40
18	12	24
20	8	16
22	5	10

NOTE: Remote mounting only available when provided as part of Listed luminaire.

* Total wire length can NOT exceed the value given in the Maximum Wire Length column.

** Distance values are round trip wire length. Distances are for Emergency Driver only.

Consult AC Driver specification for remote mounting distances when using AC Driver.



Compatible With *

- LED Lighting forward voltage of 15 V to 52 including Philips LED line
- Samsung U990048
- LG Lightbox

APPLICATION

The BSL310LP emergency LED driver works in conjunction with an AC LED driver that has an output current not to exceed 2.5 A. The emergency driver consists of a high-temperature nickel-cadmium battery, charger, and electronic circuitry contained in one metal enclosure. The BSL310LP can be used with an LED lighting load configuration resulting in an output voltage in the 15-52V range, delivering an initial minimum power of 10.0 Watts for 90 minutes. If used in an emergency-only fixture, no AC driver is necessary. The BSL310LP is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. For more information about specific LED and AC driver compatibility, please contact Technical Support.

OPERATION

When AC power fails, the BSL310LP immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode. An internal circuit delays the AC LED driver operation for up to 0.5 seconds to prevent over current of LEDs that would occur if both drivers supply the load at the same time.

INSTALLATION

The BSL310LP does not affect normal fixture operation and may be used with either a switched or unswitched fixture. If a switched fixture is used, an unswitched hot

lead must be connected to the emergency driver. The emergency driver must be fed from the same branch circuit as the AC driver. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C. The 2W-ITS is a class 2 device. It may be remotely mounted up to 100 ft. from the BSL310LP Emergency Driver.

EMERGENCY ILLUMINATION

The BSL310LP operates an LED load, delivering an initial minimum 10.0 W of power for a minimum of 90 minutes.

SPECIFICATION

Emergency lighting shall be provided by using an LED fixture equipped with a Philips Bodine BSL310LP universal input (120-277VAC) emergency driver. An internal circuit delays the AC LED driver operation for up to 0.5 seconds to prevent over current of LEDs that would occur if both drivers supply the load at the same time. This emergency driver shall consist of a high-temperature maintenance-free nickel-cadmium battery, charger, and other electronic circuitry contained in one metal enclosure. A 2-wire illuminated test switch (2W-ITS) shall be supplied with the installation hardware. The 2W-ITS combines a single pole test switch that provides a test function with a solid-state charging indicator light that monitors the battery and its charger. The emergency driver shall be capable of operating an LED load for a minimum of 90 minutes

and of delivering an initial minimum output power of 10.0W, following a battery charging period of at least 24hours. The BSL310LP is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. The BSL310LP shall have a 21.6 Watt-hour battery capacity, a maximum of 4.0 Watts of input power, and shall comply with emergency standards set forth by the current NEC. The emergency driver shall be UL Recognized for factory installation only and shall be warranted for a full five years from date of purchase.

WARRANTY

Model BSL310LPST is warranted for five (5) full years from date of purchase. Please see detailed warranty information on our web site..

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