

# bodine



## Emergency Driver

LED

BSL310SB



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Emergency driver for LED strips Class 2 output Separate Battery Configuration

Product order numbers:  
BSL310SB (Polycarbonate case, includes standard 2W-ITS)

### Specifications

#### UL Listed for US and Canada

Listed to UL924 and tested to CSA 22.2, No. 141  
For Field or Factory Installation  
(Indoor and Damp)

#### Illumination Time

90 Minutes

#### Full Warranty

5 Years (NOT pro-rata)

#### Universal Input Voltage

120-277 VAC, 50/60 Hz

#### AC Input Power Rating

4.0 W (Maximum)

#### Output Voltage

15-50 VDC

#### Output Power

10.4 W (Maximum)

#### Test Switch/Charging Indicator Light

- 2W-ITS (2 wire Illuminated Test Switch)
  - IP67 rated 2W-ITS (can be used in wet locations).
- See optional configurations.

#### Battery

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

#### Recharge Time

24 Hours

#### Temperature Rating (Ambient)

0°C to +55° (32°F to 131°F)

#### Dimensions (Enclosure Excluding Battery)

6.57" x 2.25" x 1.18" (167 mm x 57 mm x 30 mm)  
Mounting Center 6.0" (152.4 mm)

#### Weight

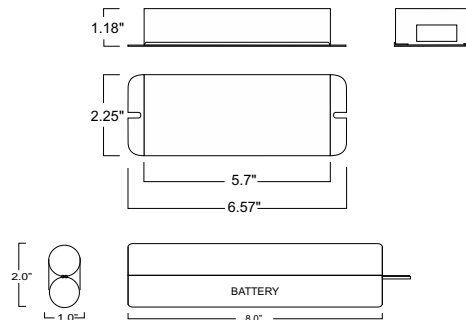
2.25 lbs. (1.0 kg) - polycarbonate

### Benefits:

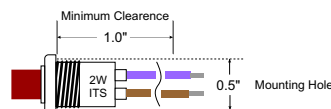
- Smart Charger Technology for low energy consumption
- Meets CEC Title 20 (California Energy Commission) efficiency standards
- Class 2 output - UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Emergency mode lumen output of up to 1300 lumens
- Universal input (120 through 277 VAC)
- 2 wire input helps reduce wiring errors
- Compatible with a variety of LED strip manufacturers
- RoHS Compliant

### Dimensions

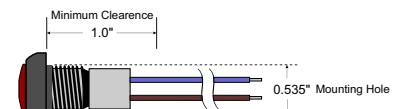
6.57" x 2.25" x 1.18" (mounting center - 6.0")



#### Optional configurations: Call factory for additional information



BSL310SB (includes 2W-ITS)



IP67 rated test switch available  
Order additional kit - PRT00137



# BSL310SB Emergency LED driver for LED strips

## Application

The BSL310SB universal input (120–277 V) emergency LED driver works in conjunction with an AC LED driver that has an output current not to exceed 3.0 A. The emergency driver consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one case. The BSL310SB can deliver up to 10.4 watts to an LED load (measured at nominal battery voltage) for 90 minutes. If used in an emergency-only fixture, no AC driver is necessary. The BSL310SB is suitable for indoor and damp locations. For more information about specific LED and AC driver compatibility, please call the factory.

## Operation

When AC power fails, the BSL310SB 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.

## Installation

The BSL310SB 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. Per UL requirements, the polycarbonate BSL310SB must be enclosed if remote mounted outside of the fixture. Installation is not recommended with fixtures where the ambient temperature may fall below 0° C. The product is suitable for installation in sealed and gasketed fixtures.

## Code Compliance

For detailed information regarding standards and code compliance for emergency lighting see product page or the Codes and Standards section on the web site.

## Emergency Illumination

The BSL310SB operates an LED load of up to 10.4 W at nominal battery voltage for a minimum of 90 minutes.

## Specification

Emergency lighting shall be provided by using a LED fixture equipped with a Bodine BSL310SB universal input (120–277 V) emergency driver. This emergency driver shall consist of a high-temperature, maintenance-free nickel-cadmium

battery, charger and electronic circuitry contained in one case. An illuminated test switch (ITS) to monitor charger and battery as well as installation hardware shall be provided. The emergency driver shall be capable of delivering up to 10.4 watts to an LED load for a minimum of 90 minutes. The BSL310SB is suitable for indoor and damp locations. The BSL310SB shall have a maximum of 4.0 watts of input power and a 24.0 Watt-hour battery capacity and shall comply with emergency standards set forth by the current NEC. This device complies with Part 15 of the FCC Rules and meets CEC Title 20 (California Energy Commission) efficiency standards. The emergency driver shall be UL Listed for field or factory installation.

## Warranty

The BSL310SB is warranted for five (5) full years from date of manufacture (NOT pro-rata). Please see detailed warranty information on our web site.

