



Emergency LED Driver for Space Limited Applications
 10 Watts Output Power
 Class 2 Output
 Separate Battery Configuration

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Product order number:
 BSL310SB

12NC number:
 913702460201

Specifications

Regulatory Certifications

UL Listed to UL 924 and tested to CSA 22.2, No. 141
 Factory or Field Installation (Indoor and Damp)
 Output Class 2 Compliant
 Input Title 20 CEC Compliant

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

Standard: 2W-ITS (Two-Wire Illuminated Test Switch)
 Optional: IP67 rated 2W-ITS (can be used in wet locations)

Battery

High-Temperature, Maintenance-Free
 Nickel-Cadmium Battery
 7 to 10-Year Life Expectancy
 8.00" x 2.00" x 1.00" (203 mm x 51 mm x 25 mm)

Recharge Time

24 Hours

Temperature Rating (Ambient)

0-55°C (32-131°F)

Dimensions (Electronics Enclosure Only)

6.57" x 2.25" x 1.18" (167 mm x 57 mm x 30 mm)
 Mounting Center 6.0" (152 mm)

Weight

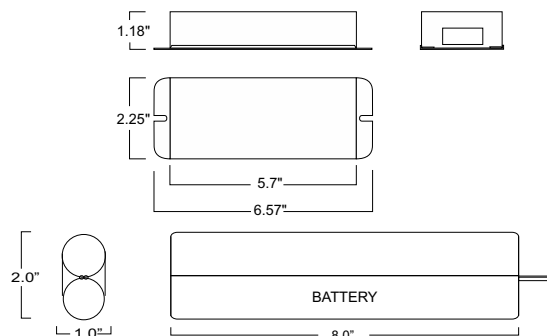
2.25 lbs (1.0 kg)

Benefits:

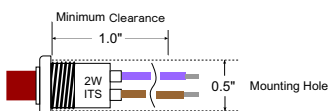
- Smart Charger Technology for low energy consumption
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- Class 2 Output - UL 1310 Certified, CSA 22.2 No. 223-M91 compliant
- Emergency mode lumen output of up to 1300 lumens
- RoHS Compliant

Dimensions

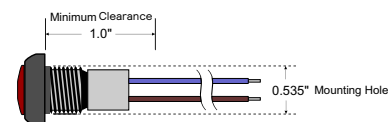
6.57" x 2.25" x 1.18" (mounting center - 6.0")



Optional configurations: Call Technical Support for additional information.



BSL310SB (includes 2W-ITS)



IP67 rated test switch available
 Order additional kit - PRT00138

BSL310SB

Emergency LED Driver, Separate Battery Configuration

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 Title 20 CEC (California Energy Commission) efficiency standards. The emergency driver shall be UL Listed for factory or field 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 website.

Bodine Product Storage Guidance

1. All batteries require periodic charging and discharging cycles. In general, here are the relevant battery chemistry industry standard guidelines to maintain optimal battery capacity for each battery type used by Bodine:
 - a. Nickel-based battery chemistries (Ni-Cd/ Ni-MH) should be charged and discharged within 6 months. At a minimum, the battery should be recharged within this time.
 - b. Lead-Acid battery chemistries, such as the Sealed Lead-Acid (SLA) batteries used in some Bodine products, should be fully recharged every 8 months.
 - c. Lithium chemistries should be fully recharged every 6 months. Though they can be stored for longer periods and still maintain their full effectiveness, they will not be able to provide the product with emergency power until they are recharged.
 2. Any battery stored for the time period mentioned above requires a full charge or for the product to be energized for its rated charge time in order to meet the full rated emergency run-time.
 3. Batteries must be stored at temperatures between 0-40°C. However, optimal storage is 0-25°C. Storage at extreme temperatures will reduce the storage time possible and may permanently damage the battery.
- Never store the product with the inverter connector (sometimes also called the "converter" or "unit enable" connector) closed. This enables the output and the control circuitry and will drain the battery in storage at a faster rate.

