

**PHILIPS**  
**bodine**

Emergency Drivers

LED

BSL310



**Emergency driver for LED strips**  
**Class 2 output**  
**10 Watts output power**

Product order number: BSL3102WM (Polycarbonate case)  
See back page for additional model configurations



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

**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**

Illuminated Test Switch

**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°C (32°F to 131°F)

**Dimensions (BSL310)**

14.5" x 2.25" x 1.18" (369 mm x 58 mm x 30 mm)  
Mounting Center 14.0" (356 mm)

**Weight**

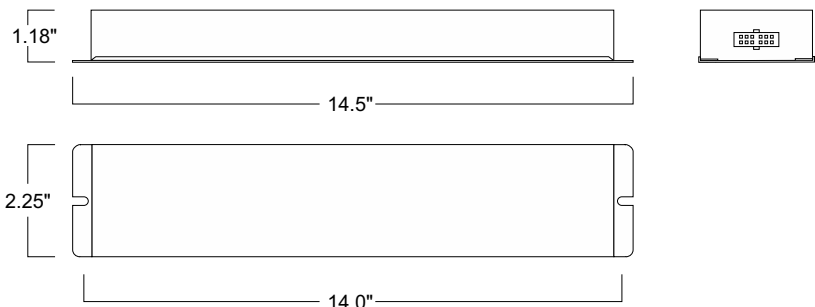
2.25 lbs. (1.0 kg) - polycarbonate

**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 (120-277 VAC)
- 2 wire input reduces wiring errors
- Compatible with a variety of LED strip manufacturers
- Compatible with AC drivers and LED loads rated for Class 2
- RoHS compliant

**Dimensions**

14.5" x 2.25" x 1.18" (mounting center - 14.0")



# BSL310

## Emergency LED Driver for LED Strips, Class 2 Output

### Application

The BSL310 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 BSL310 can deliver up to 10 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 BSL310 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 BSL310 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 BSL310 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 BSL310 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.

### Emergency Illumination

The BSL310 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 Philips Bodine BSL310 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 and 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 BSL310 is suitable for indoor and damp locations. The BSL310 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. See instructions below.

### Warranty

The BSL310 is warranted for five (5) full years from date of manufacture (NOT pro-rata). Please see detailed warranty information on our web site.

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#### Optional models: Call factory for additional models and configurations

BSL310C (Metal case, with conduit)	Order no. BSL310C2WM
BSL310M (Metal case, no conduit)	Order no. BSL310M2W
BSL310C-DF (Metal case, dual conduit)	Order no. BSL310CDFM

