

PHILIPS bodine

Emergency Drivers

LED

BSL310C / C-DF



Project: _____

Type: _____

Model No: _____ Qty: _____

Date: _____

Notes: _____

Emergency LED driver
Listed for field installation
Class 2 output
10 Watts output power

Product order number: BSL310C2WM (metal case)
 See back page for additional model configurations

Specifications

ETL Listed

For Field or Factory Installation
 (Indoor and Damp)

UL RECOGNIZED

For 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 Current

60 mA Maximum

AC Input Power Rating

4.0 W Maximum

Output Current and Voltage

Selectable (See Table 1)

Without Selector: minimum 200 mA, 35-50 VDC,
 minimum 300 mA over optimized range (30-34 VDC)

With Selector: minimum 400 mA, 10-29 VDC

Output Power

10.0 W (Maximum)

Test Switch/Charging Indicator Light

Illuminated Test Switch

Battery

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

Battery Charging Current

180 mA

Recharge Time

24 Hours

Temperature Rating (Ambient)

0°C to +55°C (32°F to 131°F)

Dimensions (BSL310)

15.34" x 2.25" x 1.18" (369 mm x 58 mm x 30 mm)
 Mounting Center 15.0" (356 mm)

Weight

3.45 lbs. (1.56kg)

Benefits:

- Listed for field installation - UL 924 and CSA C22.2 No. 141 Emergency Lighting Compliant
- 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
- Selectable Output
- RoHS Compliant

Dimensions

15.34" x 2.25" x 1.16" (mounting center - 15.0")

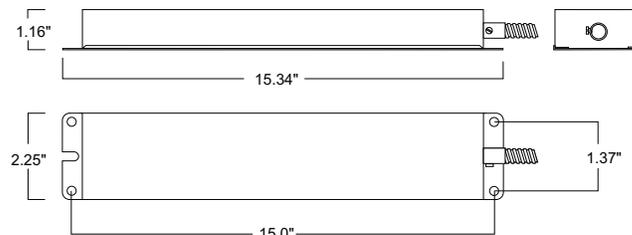


Table 1 Load Select Options

Max Load Voltage	Load Select
10V - 29V	Connected
30V - 50V	Not onnected



BSL310C / C-DF

Emergency LED Drive, Class 2 Output

APPLICATION

The BSL310C / C-DF is ETL Listed for factory or field installation and allows the same LED luminaire to be used for normal and emergency operation. The BSL310C 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 BSL310C 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 BSL310C 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 BSL310C 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. A patented circuit delays AC LED driver operation for up to 5 seconds to prevent over current of LED's that would occur if both drivers supply the load at the same time.

INSTALLATION

The BSL310C 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 product is suitable for installation in sealed and gasketed fixtures. For LED loads rated less than 30V, connect the load select per Table 1 for proper operation and optimum performance. The BSL310C is in a metal case and offered in two configurations. The BSL310C-DF is equipped with two flexible metal conduits on one end of the driver with the illuminated test switch attached to the end of one of the conduits, and lead wires in the other.

EMERGENCY ILLUMINATION

The BSL310C operates an LED load of up to 10.0 W at nominal battery voltage for a minimum of 90 minutes.

SPECIFICATION

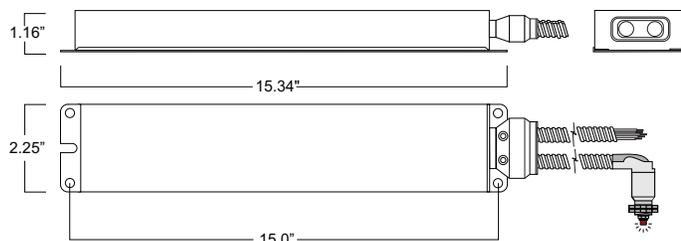
Emergency lighting shall be provided by using an LED fixture equipped with a Philips Bodine BSL310C

universal input (120-277 V) emergency driver. A patented circuit delays AC LED driver operation for up to 5 seconds to prevent over current of LED's 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 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 watts to an LED load (10-50 VDC) for a minimum of 90 minutes. The BSL310C is suitable for indoor and damp locations. The BSL310C 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. The emergency driver shall be ETL Listed for field or factory installation and UL Component Recognized for factory installation.

WARRANTY

The BSL310C is warranted for five (5) full years from date of purchase (NOT pro-rata). Please see detailed warranty information on our web site.

Optional model BSL310C-DF with dual conduit



BSL310C-DF (Metal case, dual conduit)
Weight: 3.80 lbs. (1.73kg)
Order no. BSL310CDFM

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