PHILIPS

bodine

Emergency Drivers

LED

BSL310M

Project:

Type:

Model.No: Qty:

Date:

Notes:

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

Product order number: BSL310M2W (metal case, no conduit)

Specifications

ETL Listed
For Field or Factory Installation
(Indoor and Damp)

UL Component 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
15.34" x 2.25" x 1.16" (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 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")

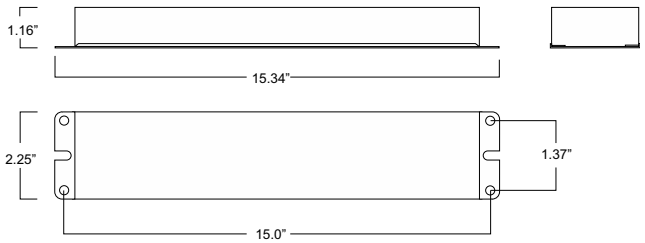

Table 1 Load Select Options

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

Intertek

BSL310M

Emergency LED Driver, Class 2 Output

APPLICATION

The BSL310M is ETL Listed for factory or field installation and allows the same LED luminaire to be used for normal and emergency operation. The BSL310M 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 BSL310M 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 BSL310M 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 BSL310M 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 BSL310M 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 on front page for proper operation and optimum performance.

CODE COMPLIANCE

For detatiled 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 BSL310M 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 BSL310M 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 (10-50VDC) for a minimum of 90 minutes. The BSL310M is suitable for indoor and damp locations. The BSL310M 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 CUS for factory installation.

WARRANTY

The BSL310M is warranted for five (5) full years from date of purchase (NOT pro-rata). Please see detailed warranty information on our web site.

Document order number: L2300254 16.0104

Philips Emergency Lighting
236 Mt. Pleasant Rd.
Collierville, TN 38017
Tech Support: 888.263.4638
Sales: 800.223.5728

philips.com/bodine