

# bodine



## Emergency Driver

LED

BSL10LST



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

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

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

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

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

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

### Emergency LED Driver (10 Watts Output Power) New Compact Case Self-Testing Class 2 Output

Product order number: BSL10LSTM

### Specifications

#### UL Listed for US and Canada

Listed to UL924 and tested to CSA 22.2 No. 141  
Field or Factory Installation (Indoor and Damp)  
Output Class 2 Compliant

#### Illumination Time

90 Minutes

#### Initial Light Output

Up to 1300 Lumens\*

#### Full Warranty

5 Years (NOT pro-rata)

#### Universal Input Voltage

120-277 VAC, 50/60 Hz

#### Output Voltage

15 - 54 VDC

#### Output Power

10.0 W initial (regulated)

#### Test Switch / Charging Indicator Light

Two-Wire Illuminated Test Switch (2W-ITS)\*\*

#### Battery

High-Temperature, Maintenance-Free  
Lithium Ion Battery  
7- to 10-Year Life Expectancy

#### Recharge Time

24 Hours

#### Charging Indicator Light

LED

#### Temperature Rating

Ambient : 0°C to +55°C (32°F to 131°F)  
Case: Tc (max): 63°C

#### Dimensions

16.6" x 1.18" x 1.0" (424 mm x 30 mm x 25 mm)  
Mounting Center 16.3" (415 mm)

#### Weight

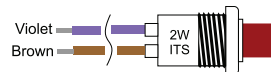
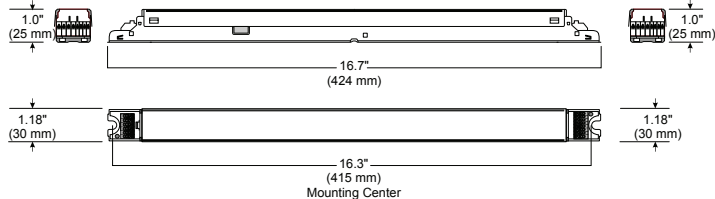
0.95 lbs. (0.44 kg)

### Benefits:

- New compact design for space-limited linear LED applications.
- Smart Charger Technology for low energy consumption
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- Automatic code-compliant testing
- Controlled power for predictable discharge
- Poke-In wiring connections for simplified installation
- RoHS compliant

### Dimensions

16.6" x 1.18" x 1.0" (mounting center - 16.3")



An illuminated test switch/charging indicator light is provided.

\* Based on a min efficacy of 130 lumens/watt of load power

\*\* The 2W-ITS is a Class 2 device.



# BSL10LST Emergency LED driver, new compact case, self-testing, class 2 output

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## Application

The BSL10LST is UL Listed for factory or field installation and allows the same LED luminaire to be used for normal and emergency operation. The emergency LED driver works in conjunction with an AC LED driver that has an output current not to exceed 5.0A, to convert new or existing LED fixtures into emergency lighting. The emergency driver consists of a high-temperature maintenance free lithium ion battery, charger, and electronic circuitry contained in one metal enclosure. The BSL10LST is capable of delivering an initial minimum power of 10 watts to an LED load (15-54 VDC) for a minimum of 90 minutes. If used in an emergency-only fixture, no AC driver is necessary. The BSL10LST is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. For more information about specific LED and AC driver compatibility, please contact Technical Support.

## Operation

When AC power fails, the BSL10LST 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. During automated testing, the BSL10LST simulates an AC power failure. This failure causes the emergency driver to switch to emergency mode and conduct a discharge test to monitor battery voltage and the LED's operation. If the BSL10LST detects a problem, the status indicator light flashes. When testing is complete, the BSL10LST returns to the charging mode. The BSL10LST automatically tests emergency lighting for 30 seconds once a month and 90 minutes once a year.

## Installation

The BSL10LST 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 2W-ITS is a class 2 device. It may be remotely mounted up to 100 ft. from the BSL10LST emergency driver.

## Code Compliance

The BSL10LST complies with Part 15 of the FCC Regulations and meets CEC Title 20 (California Energy Commission) battery charging efficiency regulations. The emergency driver shall be UL924 Listed for factory or field installation in the USA or Canada. Output LED Load, Test Switch, and Unit-Engage connections are all rated Class 2 per UL1310. RoHS compliant.

## Emergency Illumination

The BSL10LST shall be capable of delivering an up to 10 watts of power to an LED load (15-54 VDC) for a minimum of 90 minutes.

## Specification

Emergency lighting shall be provided by using an LED fixture equipped with a Bodine BSL10LST self-testing/self-diagnostic emergency driver. Electronic circuitry shall be self-testing in design and automatically test emergency lighting for a minimum of 30 seconds every 28 days and 90 minutes once a year. This emergency driver shall consist of a high-temperature maintenance-free

lithium ion battery, charger, and other electronic circuitry contained in one metal enclosure. A 2-wire illuminated test switch (2W-ITS) shall be supplied with the installation hardware. The BSL10LST is capable of delivering an initial minimum power of 10 watts to an LED load (15-54 VDC) for a minimum of 90 minutes. The BSL10LST is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. The BSL10LST shall have a 28 Watt-hour battery capacity, a maximum of 6 Watts of input power, 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 BSL10LST shall be UL Listed for factory or field installation.

## Warranty

Model BSL10LST is warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our web site.

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## Lithium Battery Shipping Regulations

To comply with IATA provisions for air transporting lithium batteries, and for a step by step guidance through the shipping process, please visit <http://www.iata.org/publications/store/Pages/lithium-battery-shipping-guidelines.aspx>.

To view a Classification Flowchart for package marking requirements, please visit <http://www.iata.org/whatwedo/cargo/dgr/Pages/lithium-batteries.aspx>. Scroll to the "Guidance Material" section and click on the provided "Guidance Document" PDF link. The Classification Flowchart will be found on page 5. The BSL10LST battery cell capacity is less than 20Wh, and the battery pack capacity is less than 100 Wh.

