



Emergency LED Driver  
 Class 2 Output Voltage 15-54V  
 7 Watts Output Power  
 4-Hour Runtime

**Product order number:**  
 BSL07B2UAK55L14H11

**12NC number:**  
 913702489101

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

## 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

240 Minutes

### Full Warranty

5 Years (NOT pro-rata)

### Universal Input Voltage

120-277 VAC, 50/60 Hz

### Output Voltage

15-54 VDC

### Output Power

7.0 W

### Test Switch/Charging Indicator Light

Plenum rated metal test switch assembly  
 Test switch is IP65 rated for ingress protection to dust and water jets  
 Test switch assembly is UL 2043 plenum-rated  
 Test switch can be mounted up to 50 feet from fixture  
 Lead length 35.43" (900 mm)

### Battery

High-Temperature, Maintenance-Free  
 Lithium ion Battery

### Recharge Time

24 Hours

### Temperature Rating

Ambient: 0-55°C (32-131°F)  
 Case Tc (Max): 65°C

### Dimensions

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

### Weight

2.67 lbs (1.2 kg)

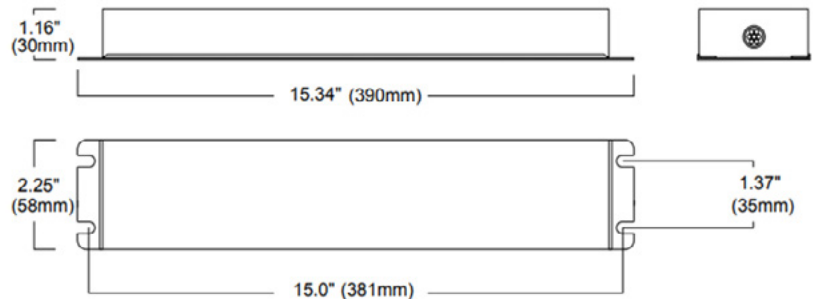
## Benefits

- Smart Charger Technology for low energy consumption
- Automatic Bodine Connect
- Automatic Code Compliance Testing
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- UL 924 and CSA C22.2 No. 141 Emergency Lighting Compliant
- Emergency mode nominal lumen output of up to 1,820 lumens
- Universal input (120-277 VAC)
- Two wire input to help reduce potential for wiring errors
- Auto-sensing output within each range

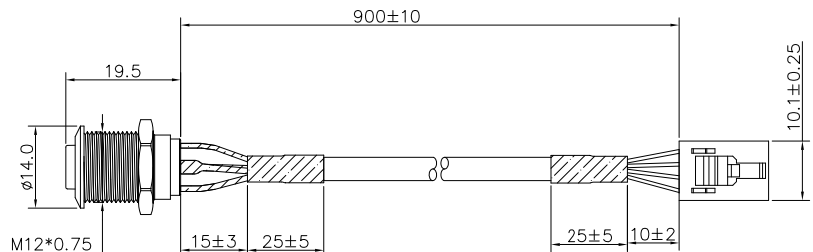
## Dimensions

15.34" x 2.25" x 1.16" (390mm x 58mm x 30mm)

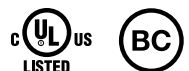
Mounting center - 15.0" (381mm)



### Plenum-Rated Test Switch Assembly



Note: Required hole is 12.5mm. All dimensions shown are in millimeters.



# BSL07B2

## Emergency LED Driver, 4-Hour Run-time

### Application

The BSL07B2 is UL Listed for factory or field installation and allows the same LED luminaire to be used for normal and emergency operation. The BSL07B2 universal input (120-277 V) emergency LED driver works in conjunction with an AC LED driver that has an output current not to exceed 5 A. The emergency driver consists of a high-temperature LFP battery, charger and electronic circuitry in one galvanized case. The BSL07B2 can supply an LED lighting load of up to 7.0 Watts for 240 minutes. If used in an emergency-only fixture, no AC driver is necessary. The BSL07B2 is suitable for indoor and damp locations. For more information about specific LED and AC driver compatibility, please contact Technical Support.

### Operation

When AC power fails, the BSL07B2 immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 240 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode. In situation where the user manually deactivates the emergency operation for shipping or storing product via the test switch, the Automatic Bodine Connect feature reactivates power when the driver senses that AC current is applied. This feature saves time, labor and the potential to overlook the converter connector step. There is no possibility to inadvertently discharge the battery prior to installation, whether in transit or storage.

### Ordering Guide

example: BSL07B2UAK55L14H1I

Product Category	Watts	Case	Input Voltage	Output Voltage	Temperature		Type/Harness	Special Features	Packaging	Generation
<b>BSL</b>	<b>07</b>	<b>B2</b>	<b>U</b>	<b>A</b>	<b>K</b>	<b>55</b>	<b>L1</b>	<b>4H</b>	<b>I</b>	<b>1</b>
BSL Bodine Solid State Lighting	07	B2 (see page 1 for case dimensions)	U 120-277V	A 15-54V	K Min. Temp. 0°C	55 Max. Case Temp. 55°C	L1 No conduit, leads out one end	4H 4 hour runtime	I Individual	1

### 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 <https://www.iata.org/en/publications/store/lithium-battery-shipping-regulations/>.

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 BSL07B2 battery cell capacity is less than 20Wh, and the battery pack capacity is less than 100 Wh.

### Installation

The BSL07B2 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.

### Code Compliance

For detailed information regarding standards and code compliance for emergency lighting see product page or the Codes and Standards section on the website.

### Emergency Illumination

The BSL07B2 operates an LED load of up to 7.0 W for a minimum of 240 minutes.

### Specification

Emergency lighting shall be provided by using a LED fixture equipped with a Bodine BSL07B2 universal input (120-277 V) emergency driver. A patented circuit delays AC LED driver operation for up to 2 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 LFP battery, charger and electronic circuitry contained in one case. A test switch assembly to monitor charger and battery and

installation hardware shall be provided. The emergency driver shall be capable of operating an LED load of up to 7.0 Watts at a maximum rated current for a minimum of 240 minutes. The BSL07B2 is suitable for indoor and damp locations 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 for factory installation.

### Warranty

Model BSL07B2 is warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our website.

Example Efficacy (lumens per watt)	BSL07B2 Lumen Output
110	770
130	910
150	1,050
170	1,190

