

Project		Catalog #		Type	
Prepared by		Notes		Date	



Sure-Lites +

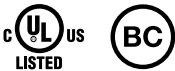
EBPLEDL6F Emergency LED Driver

6W Emergency LED Driver
ABConnect Equipped
Metal IP65 Test Switch/Indicator Light (bi-color)

Typical Applications
Office • Education • Healthcare • Hospitality • Retail • Industrial Manufacturing

-  **Interactive Menu**
- Order Information [page 2](#)
 - Product Specification [page 2](#)
 - Technical Data [page 3](#)

Product Certification

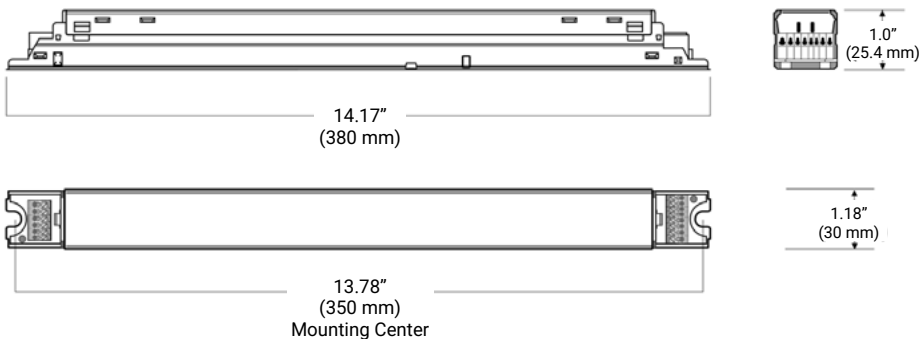


Top Product Features

- Compact design for space-limited linear LED applications
- FirstLink compatible for automated testing and reporting when used with communication node in bracket provided
- Equipped with ABConnect to eliminate the need for the emergency enable connector
- New plenum rated metal test switch cable assembly with bi-color indicator light
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- Controlled power for predictable discharge
- Poke-in wiring connections for simplified installation

Dimensional and Mounting Details

14.17" x 1.18" x 1.0" (360 mm x 30 mm x 25.4 mm)
Mounting Center 13.78" (350 mm) | Weight: 0.95 lbs (0.43 kg)



Dim.	Tolerance
L	± 0.02" (0.5 mm)
W	± 0.02" (0.5 mm)
H	+ 0.1" (2.5 mm)

Ordering Information

SAMPLE ORDER NUMBER: **EBPLEDL6SF**

Product Category	Watts	Special Features
Product Category	Watts	Special Features
EBPLEDL= Emergency Battery Pack	6	SF= Self Testing FirstLink

Product Specifications

Regulatory Certifications

- Listed to UL924 and tested to CSA 22.2 No. 141
- Field or Factory Installation (Indoor and Damp) Output Class 2 Compliant
- Input CEC Title 20 Compliant

Illumination Time

- 90 Minutes

Initial Light Output

- Up to 900 lumens ¹

Full Warranty

- 5 Years (NOT pro-rata)

Universal Input Voltage

- 120-277 VAC, 50/60 Hz

Input Current

- 60 mA max

Output Voltage

- 15 - 54 VDC

Output Power

- 6.0 W initial (regulated)

Battery

- High-Temperature, Maintenance-Free
- Lithium Ion Battery

Recharge Time

- 24 Hours

Wireless range ²

- 40' (typical minimum)
- 80' (line of sight)

FirstLink Node Power Supply

- 60 mA (max), 52mA (guaranteed)
- UL insulation system 130B, Class 2 per UL 1310

Test Switch / Charging Indicator Light

- Two-Wire, Bi-Color Illuminated Test Switch³
- IP65 rated for ingress protection
- UL 2043 plenum rated test switch cable assembly

Temperature Rating

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

Surge Rating

- NEMA/ANSI C82.77-5-2017 100kHz Ring Wave (w/t 30Ω)
- >2.5kV Differential (L-N)
- >2.5kV Common (L-G, N-G, L&N-G)

Dimensions

- 14.17" x 1.18" x 1.0" (360 mm x 30 mm x 25.4 mm)
Mounting Center 13.78" (350 mm)

Weight

- 0.95 lbs (0.43 kg)

Notes

1. Based on a min efficacy of 150 lumens/watt at load output power.
2. Wireless range can be impacted by many factors, which must be taken into account during the system design.
3. The bi-color illuminated test switch is a Class 2 device.

Technical Data

Application

- The EBPLEDL6SF 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 5.0 A 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 EBPLEDL6SF is capable of delivering an initial minimum power of 6 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 EBPLEDL6SF 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 EBPLEDL6SF 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 EBPLEDL6SF simulates an AC power outage. This 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 EBPLEDL6SF detects a problem, the status indicator light flashes. When testing is complete, the EBPLEDL6SF returns to the charging mode. The EBPLEDL6SF automatically tests emergency lighting for 30 seconds once a month and 90 minutes once a year.
- ABConnect feature simplifies shipping, storage, installation, and commissioning of the emergency lighting luminaire. It allows for the luminaire to be installed and made ready for use without needing to reopen the luminaire when AC power is available, also avoiding unnecessary drain on the battery.
- Once activated, the product can also be manually disabled, allowing the product or the luminaire to be safely stored for extended periods of time. In the 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. This reduces the possibility of inadvertently discharging the battery prior to installation, whether in transit or storage.

Installation

- The EBPLEDL6SF 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 bi-color illuminated test switch is a Class 2 device. It may be remotely mounted up to 100 ft. from the EBPLEDL6SF emergency driver.

Emergency Illumination

- The EBPLEDL6SF shall be capable of delivering up to 6 watts of power to an LED load (15-54 VDC) for a minimum of 90 minutes.

Code Compliance

- The EBPLEDL6SF 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 and test switch connections are all rated Class 2 per UL1310.

Specification

- Emergency lighting shall be provided by using an LED fixture equipped with a Bodine FirstLink EBPLEDL6SF connected and 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 Bodine FirstLink connected compatible emergency LED driver shall be capable of being configured into a group with other Bodine FirstLink compatible emergency lighting products through the Bodine FirstLink app facilitating automatic, maintenance-free testing and reporting. 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 bi-color illuminated test switch shall be supplied with the installation hardware.
- The EBPLEDL6SF is capable of delivering an initial minimum power of 6 watts to an LED load (15-54 VDC) for a minimum of 90 minutes. The EBPLEDL6SF is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. The EBPLEDL6SF shall have a maximum input current of 60 mA 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 EBPLEDL6SF shall be UL Listed for factory or field installation.

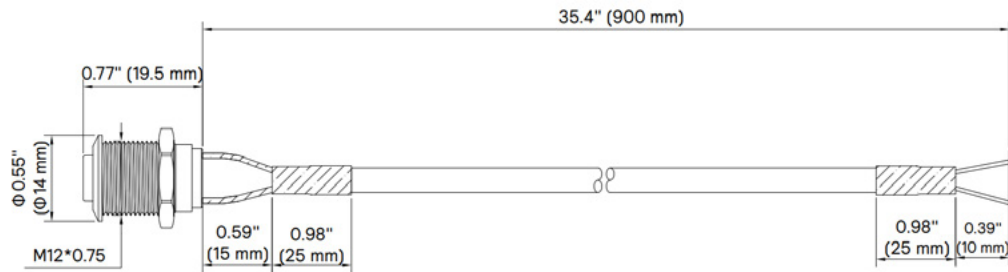
Warranty

- Model EBPLEDL6SF is warranted for five (5) full years from date of manufacture.
- Please see detailed warranty information on our website.

Additional Drawings

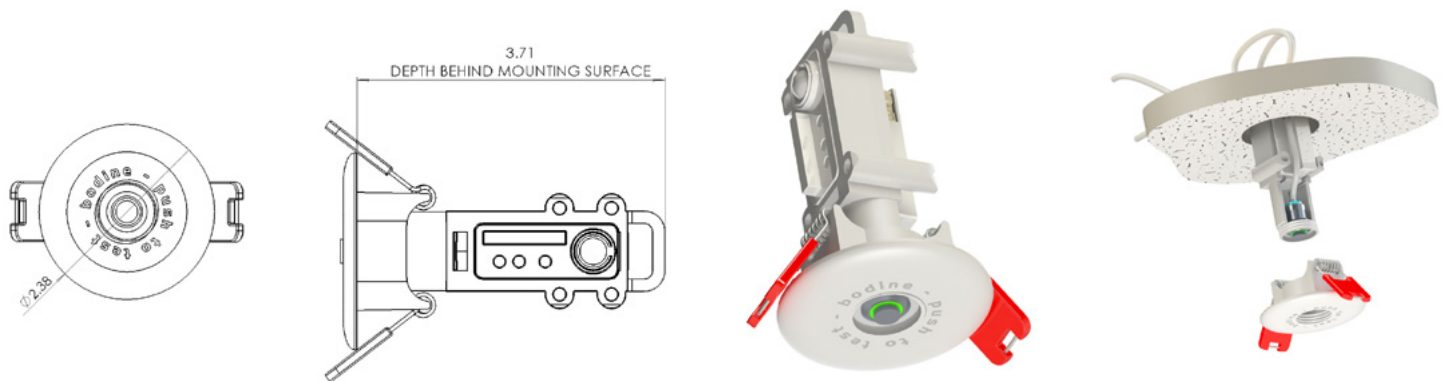
Metal Bi-Color Test Switch with Plenum Rated Cable

Note: Required hole size is 0.50" (12.5 mm).



Communication node and test switch/indicator light bracket.

Note: Requires 1.75" hole for proper mounting in ceiling tile or plaster ceiling.



Lithium Battery Shipping Regulations

To comply with IATA provisions for air transporting lithium batteries, and for general information on shipping Li-ion batteries, please visit <https://www.iata.org/en/programs/cargo/dgr/lithium-batteries/>.

To view a Classification Flowchart for package marking requirements, please visit <https://www.iata.org/contentassets/05e6d8742b0047259bf3a700bc9d42b9/lithium-battery-guidance-document.pdf>. Scroll to the Classification Flowchart on Page 7 of the 2023 version of this document. The EBPLEDL6SF battery cell capacity is less than 20Wh, and the battery pack capacity is less than 100 Wh.