

# bodine



## Emergency Driver

LED

BSL17C-C2ST



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

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

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

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

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

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

### Emergency LED Driver Automatic Self-Testing Class 2 output 7.5 Watts output power

Product order number: BLS17CC2ST (metal case w/conduit)      12 NC number: 913702462301

#### Specifications

##### UL Listed

Listed to UL924 and tested to CSA 22.2, No. 141  
For Field or Factory Installation  
(Indoor and Damp)

##### Illumination Time

90 Minutes

##### Full Warranty

5 Years (NOT pro-rata)

##### Universal Input Voltage

120-277 VAC, 60 Hz

##### AC Input Power

3.0 W (Maximum)

##### Output Voltage

15.0 - 50.0 VDC

##### Output Power

7.5 W (Initial)

##### Test Switch/Charging Indicator Light

2 W - ITS (2-Wire illuminated test switch)

##### Battery

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

##### Recharge Time

24 Hours

##### Temperature Rating

Ambient : 0°C to +55°C (32°F to 131°F)  
Case: Tc (max): 65°C

##### Dimensions

12.0" x 2.4" x 1.5"  
(304 mm x 60 mm x 38 mm)  
Mounting Center 11.5" (292 mm)

##### Weight

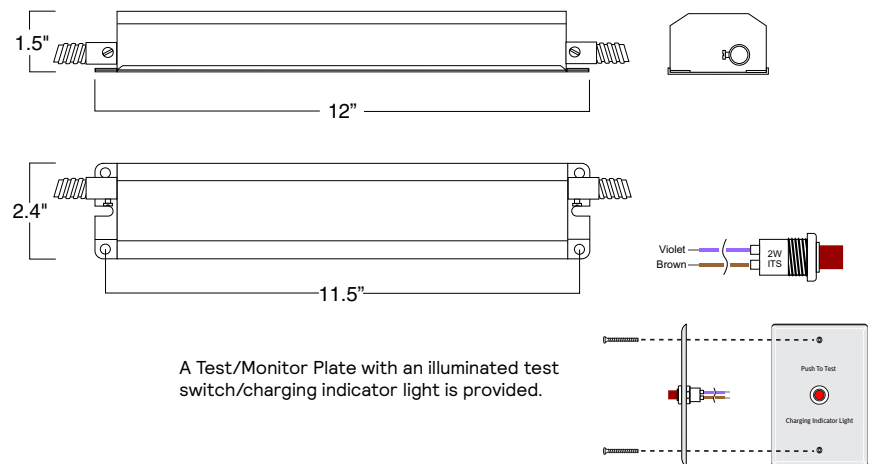
4.3 lbs. (1.95 kg)

#### Benefits:

- Listed for field or factory installation - UL 924 and CSA C22.2 No. 141 Emergency Lighting Compliant
- Automatic Self-Testing to ensure code compliance
- Smart Charger Technology for low energy consumption
- Meets Title 20 CEC (California Energy Commission) efficiency standards
- Class 2 output - UL 1310 Certified, CSA 22.2 No 223-M91 compliant
- Controlled power for predictable discharge
- Emergency mode initial lumen output of up to 975 lumens
- 15 - 50 VDC for wide range of LED loads
- Universal input (120 through 277 VAC, 50/60 Hz)
- RoHS Compliant

#### Dimensions

12.0" x 2.4" x 1.5" (mounting center - 11.5")



# BSL17C-C2ST Emergency LED Driver

## Application

The BSL17C-C2ST emergency LED driver UL Listed for factory or field installation and works in conjunction with an AC LED driver that has an output current not to exceed 3.0 A, to convert new or existing LED fixtures into emergency lighting. The emergency driver consists of a high-temperature nickel-cadmium battery, charger and electronic circuitry in one compact case. The BSL17C-C2ST can be used with an LED lighting load of up to 7.5 Watts. If used in an emergency-only fixture, no AC driver is necessary. The BSL17C-C2ST is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The BSL17C-C2ST is not suitable for air handling heated air outlets and wet or hazardous locations. For more information about specific LED and AC driver compatibility, please call the factory.

## Operation

During normal operation, the BSL17C-C2ST constantly monitors battery voltage. When AC power fails, the BSL17C-C2ST 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 BSL17C-C2ST simulates an AC power failure, causing the emergency ballast to switch to emergency mode and conduct a

discharge test to monitor battery voltage and LED's operation. If the BSL17C-C2ST detects a problem, the status indicator light flashes. When testing is complete, the BSL17C-C2ST returns to the charging mode. The BSL17C-C2ST automatically tests emergency lighting for 30 seconds once a month and 90 minutes once a year.

## Installation

The BSL17C-C2ST 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 web site.

## Specification

Emergency lighting shall be provided by using an LED fixture equipped with a Bodine BSL17C-C2ST 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 nickel-cadmium battery, charger and electronic circuitry contained in one 12" x 2 3/8" x 1 1/2" metal case. The BSL17C-C2ST comes with 2' length(s) of flexible conduit. An illuminated test switch (ITS) to monitor charger and battery and installation hardware shall be provided. The BSL17C-C2ST is suitable for indoor and damp locations and for sealed & gasketed fixtures, including fixtures rated for wet locations. The BSL17C-C2ST shall have a 15.0 Watt-hour battery capacity 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.

## Warranty

Model BSL17C-C2ST is warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our web site.

