bodine

Emergency Driver

LED

BSL17C-C2ST

Emergency LED Driver
Automatic Self-Testing
Class 2 Output
7.5 Watts Output Power

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

Product order number:
BLS17CC2ST

12NC number:
913702462301

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
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
15-50 VDC

Output Power
7.5 W (Initial)

Test Switch/Charging Indicator Light
Two-Wire Illuminated Test Switch (2W-ITS)

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

Recharge Time
24 Hours

Temperature Rating
Ambient : 0-55°C (32-131°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)

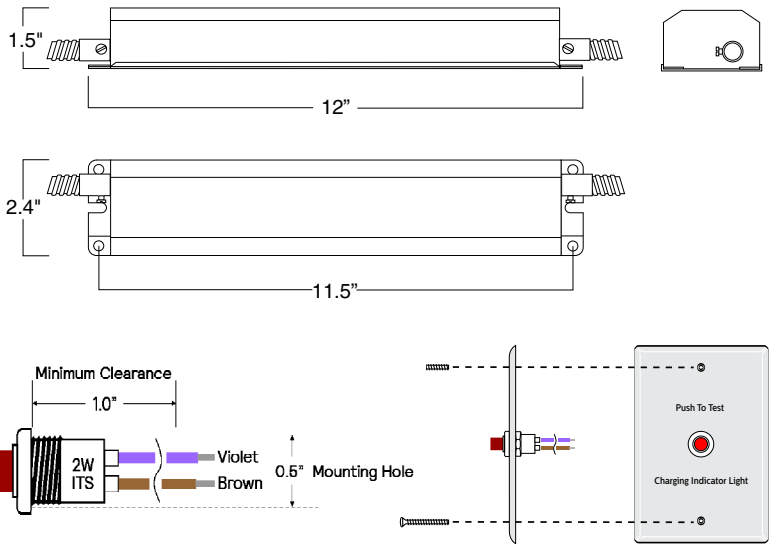
Weight
4.3 lbs (1.95 kg)

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" (304 mm x 60 mm x 38 mm)
(mounting center - 11.5")



A Test/Monitor Plate with an illuminated test switch/charging indicator light is provided.

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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. 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 contact Technical Support.

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 beprovided 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. 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 Title 20 CEC (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 website.

Bodine Product Storage Guidance

1. All batteries require periodic charging and discharging cycles. In general, here are the relevant battery chemistry industry standard guidelines to maintain optimal battery capacity for each battery type used by Bodine:

a. Nickel-based battery chemistries (Ni-Cd/Ni-MH) should be charged and discharged within 6 months. At a minimum, the battery should be recharged within this time.

b. Lead-Acid battery chemistries, such as the Sealed Lead-Acid (SLA) batteries used in some Bodine products, should be fully recharged every 8 months.

c. Lithium chemistries should be fully recharged every 6 months. Though they can be stored for longer periods and still maintain their full effectiveness, they will not be able to provide the product with emergency power until they are recharged.

2. Any battery stored for the time period mentioned above requires a full charge or for the product to be energized for its rated charge time in order to meet the full rated emergency run-time.

3. Batteries must be stored at temperatures between 0-40°C. However, optimal storage is 0-25°C. Storage at extreme temperatures will reduce the storage time possible and may permanently damage the battery.

Never store the product with the inverter connector (sometimes also called the "converter" or "unit enable" connector) closed. This enables the output and the control circuitry and will drain the battery in storage at a faster rate.

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