Emergency Backup Kit

Emergency Driver + LED Light Source

BLK1000

bodine

1000 Lumen Emergency Lighting Kit

Provides Emergency Lighting From the Internal Battery Upon Loss of AC Power

For Use With Most Luminaire Types and Independent of the Luminaire Components

Product order number:
BLK1000T3UK55TS1

12 NC number:
913702492501

Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Specifications

UL Classified for US and Canada
Classified for Field or Factory Installation (Indoor and Damp)

California Title 20
Meets CEC Title 20 requirements for installation in California

Initial Emergency Light Output
1000+ lumens (with Supplied Module)

Illumination Time
90 Minutes Minimum

Input Voltage
120 - 277 Vac 50/60 Hz

Battery
Integral Lithium-Ion Pack

Recharge Time
24 Hours

Temperature Rating (Ambient)
Ambient: 0°C to +55°C (32°F to 131°F)
Driver Chassis: Tc (max): 63°C

Dimensions
Driver:
14.1" H x 1.18" W x 1.0" D (358mm x 30mm x 25mm)
Mounting Center 13.78" (350mm)

LED Module:
5.0" H x 1.0" W (127mm x 25mm)
Mounting Center 2.65" (67.4mm)

Weight
1.75 lbs. (0.34kg)

Warranty
5 Years

Charging Indicator Light/Test Switch
IP65 Plenum Rated Bi-Color Illuminated Test Switch with 36" leads

Test Switch Wall Plate Accessory Available (PRT00132)
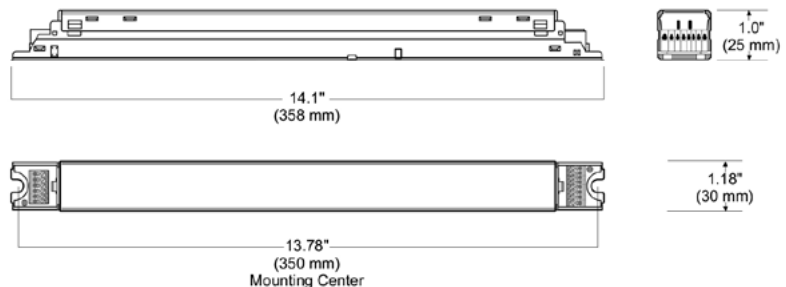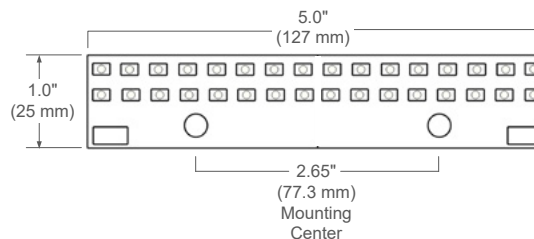

Benefits

- Compact two part solution (EM driver with integral battery and LED module)
- Fully field installable and includes everything needed for the complete installation
- Simple installation inside of existing luminaire – no modification to luminaire components needed
- Provides fast and easy emergency lighting with most existing luminaires and light sources
- Switch selectable self-testing (STSelect) – automatic code compliance if desired / can be disabled if not
- ABConnect for simple, foolproof installation

Dimensions

Driver: 14.1"H x 1.18"W x 1.0"D (Mounting Center – 13.78")

14.1" (358 mm)

13.78" (350 mm) Mounting Center

1.0" (25 mm)

1.18" (30 mm)

LED Module: 5.0"H x 1.0"W (Mounting Center – 2.65")

5.0" (127 mm)

1.0" (25 mm)

2.65" (77.3 mm) Mounting Center

BLK1000

Simple NFPA 101 Emergency Lighting, Anywhere

Application & Operation

The BLK1000 Emergency Lighting Kit is UL Classified for factory or field installation and allows for NFPA 101 compliant emergency lighting to be added to most new or existing luminaires, in the field or in a factory setting. This emergency lighting kit consists of electronic circuitry and a high-temperature maintenance-free lithium-ion battery, contained in one metal enclosure, an LED module light source, and installation lit.

When AC power fails, the BLK1000 kit immediately switches to the emergency mode, using the internal battery to illuminate the included LED module. When operating from battery power, the BLK1000 kit is capable of delivering 1000 initial lumens and shall operate for a minimum of 90 minutes. When AC power is restored, the emergency lighting kit automatically returns to the charging mode and ceases to illuminate the kit's LED module. If used in an emergency-only fixture, no AC driver is necessary.

ABConnect

ABConnect (Automatic Bodine Connect) 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 iss 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.

STSelect

STSelect (Self-Test Select) permits the product end user to enable or disable the self-test feature. This is useful when emergency LED drivers are installed in occupancies that require periods of darkness. Auditoriums, movie theaters and hospital operating rooms are just a few examples of these occupancy types. In these areas, the self-test feature would typically be disabled so the emergency luminaires do not illuminate during a scheduled self-test when inconvenient for the occupants. By default, the STSelect is set to enable the automatic self-testing feature. In occupancies where this is not desired, it should be disabled.

Installation

The BLK1000 kit 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 BLK1000 kit driver must be fed from the same branch circuit as the luminaire in which it is installed. Installation is not recommended with fixtures where the ambient temperature may fall below 0°C or climb above 55°C. The illuminated test switch (ITS) is a class 2 device. The BLK1000 kit 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 luminaire compatibility, please contact Technical Support.

BLK1000 Kit Includes

1x Emergency LED driver with integral battery

1x 1000 lumen LED module

1x Metal illuminated test switch – IP65, bi-color, plenum rated

1x Caution/charge indication/test switch label

1x Plenum rated LED module harness – 37" (960mm)

1x AC hook up wire set (black and white) – 27" (690mm), 18 AWG, solid

4x Self tapping mounting screws – 3/8"

Code Compliance

The BLK1000 complies with Part 15 of the FCC Regulations and meets CEC Title 20 (California Energy Commission) battery charging efficiency regulations. The emergency lighting kit shall be UL 924 Classified for factory or field installation in the US or Canada. Output LED load and ITS connections are all rated Class 2 per UL 1310. The BLK1000 contains automatic self-testing circuitry that can be enabled or disabled by a switch. If enabled, no action is required to perform the mandatory monthly and annual emergency lighting test. Faults in the system will be indicated by the flashing of the ITS. Depending on your local code requirements, the status of the ITS should be checked monthly to ensure there has been no fault found during the regular self-test. Installing the BLK1000 emergency lighting retrofit kit in a Listed luminaire does not affect the luminaire Listing.

Specification

Emergency lighting shall be provided by using a luminaire equipped with a Bodine BLK1000 Emergency Lighting Kit (emergency driver, LED module and accessories). The emergency driver shall consist of a high-temperature maintenance-free lithium-ion battery, charger, and other electronic circuitry contained in one metal enclosure. 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. The self-testing function shall be able to be enabled and disabled after installation (STSelect). A 2-wire, bi-color, illuminated test switch (ITS) shall be supplied with the installation hardware needed to install the emergency lighting kit in most standard luminaires. The BLK1000 kit is capable of delivering 1000 lumens initially to the included LED module for a minimum of 90 minutes. The BLK1000 kit is suitable for indoor and damp locations, and for installation in sealed and gasketed fixtures, including fixtures rated for wet locations. The BLK100 driver shall comply with emergency standards set forth by the current NEC. The BLK1000 shall be self-testing (selectable) to comply with NFPA 101. This device shall also comply with Part 15 of the FCC Rules and meet CEC Title 20 (California Energy Commission) efficiency standards. The BLK1000 kit shall be UL Classified for factory or field installation in the US and Canada.
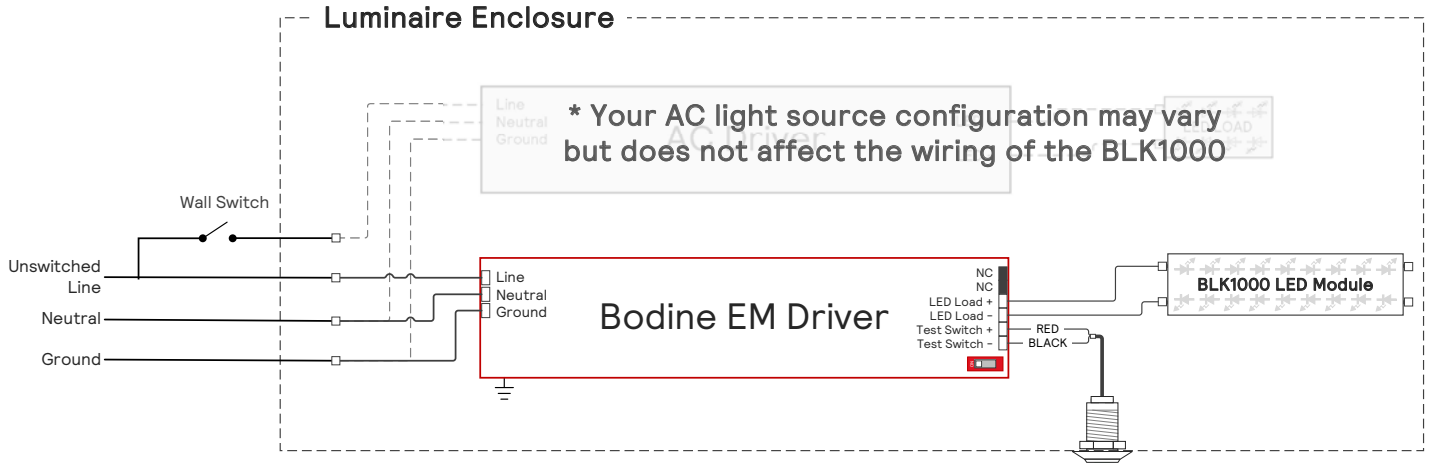
Warranty

Model BLK1000 is warranted for five (5) full years from date of manufacture. Please see detailed warranty information on our web site.

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Simple NFPA 101 Emergency Lighting, Anywhere

Wiring Diagram

Luminaire Enclosure

* Your AC light source configuration may vary but does not affect the wiring of the BLK1000

Line
Neutral
Ground
AC Driver

AC LOAD

Wall Switch

Unswitched Line

Neutral

Ground

Line
Neutral
Ground

Bodine EM Driver

NC
NC
LED Load +
LED Load –
Test Switch +
Test Switch –

RED
BLACK

BLK1000 LED Module

For illustration purposes only. Refer to product installation instructions for actual wiring diagram and proper connection points.

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 BLK1000 battery cell capacity is less than 20Wh, and the battery pack capacity is less than 100 Wh.

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

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