LED Emergency Battery Backup

Installation Instructions

Ordering Code: EB23UQB

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLATION
SAFETY INSTRUCTIONS AND WARNINGS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE OBSERVED INCLUDING THE FOLLOWING:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

• In all installations, the EB23UQB wires labeled “0-10V Retrofit or Luminaire” must be connected to the Retrofit or Luminaire 0-10V wires before power is restored.
• Voltage could be present in battery. To prevent high voltage from being present on output leads, do not connect Battery connector until installation is complete.
• This Emergency Battery Backup must be installed into an UL/CUL Listed Luminaire with a steel enclosure. Do not install this Emergency Battery Backup into luminaires with non-ferrous metal or polymeric enclosures.
• This product contains a rechargeable Ni-MH battery. The battery must be recycled or disposed of properly.
• Make sure that the necessary branch circuit wiring is available. An un-interrupted AC source of power is required.
• Maximum mounting height of luminaire should not exceed more than 23 feet.
• Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
• Can be used with and without a switch.
• Battery is replaceable with Litetronics’s ordering code EBA45-12V. Contact the manufacturer for information on replacement battery.
• Easy front access to Dip Switch for adjustments to control output power of 23 watts for 0-10V to various Luminaire models.
• To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
• Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of Emergency Battery Backup. Check for enclosed wiring and components.
• Do not use outdoors.
• Do not let power supply cords touch hot surfaces.
• Do not mount near gas or electric heaters.
• Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
• The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
• Do not use this equipment for other than intended use.
• Installation should be in accordance with NEC and any relevant local codes.
• Risk of fire or electric shock. Emergency Battery Backup installation requires knowledge of electrical system. If not qualified, do not attempt installation. Contact a qualified electrician.
• To reduce the risk of electric shock, disconnect input line power and battery connector of Emergency Battery Backup before servicing.
• Improperly installed electrical wiring can be dangerous and cause electrical fires. This product must be used in accordance with the current rating and wire sizes listed. Consult local building code before doing any electrical work.
• COPPER to COPPER ONLY. Do not use on Aluminum. Temperature rating: 105° C (221° F) maximum. Flame Rated UL94V-0.

SAVE THESE INSTRUCTIONS

PREVENTING MALFUNCTION AND DAMAGE TO EBB UNIT

Before restoring power:
• The “0-10V Retrofit or Luminaire” wires (purple and gray) from the Emergency Battery Backup need to be connected to the Luminaire 0-10V dimming.
• The Dip Switch position (inside the EBB) needs to be set as specified in these instructions. Refer to the Luminaire Compatability Table on page 3.

NOTE: If the above is not properly done, and if the power is restored to the EBB, then some of the components inside the EBB will get hot and lead to early failure. This is not covered by warranty.

EB23UQB MISCELLANEOUS OPERATING INSTRUCTIONS

TESTING PROCEDURES
• When AC power is applied, charge indicator light illuminates green. That indicates the battery is charging.
• Press and hold “PUSH to TEST” button for 10 seconds to simulate power failure and confirm luminaire is functioning in emergency mode. During test, the charge indicator light will be off and the light will dim.

OPERATION
• When power fails, the Emergency Battery Backup automatically switches to emergency power. The charge indicator light goes off and the luminaire will operate at up to 23W.
• When AC power is restored, the emergency battery automatically returns to charge mode.
• EB23UQB must be charged for 24 hours before 90 minute test can be completed.

MAINTENANCE
Although no routine maintenance is required to keep the emergency battery backup functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:
• Visually inspect the charge indicator light monthly. It should be illuminated.
• Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
• Conduct a 90-minute discharge test once a year. LED tubes should operate at up to 23W for at least 90 minutes.

SERVICE
Should be performed as indicated above by qualified personnel.

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Emergency battery backup from Litetronics comes with a rechargeable battery installed. Replacement batteries are also available for purchase.

A Remote Test Switch for Emergency battery backup from Litetronics is available for purchase.

If your model # not listed, please contact the Litetronics customer service team.

customerservice@litetronics.com

1-800-860-3392

* Warning: EB23UQB should be installed in non-hazardous location
READ ALL INSTRUCTION BEFORE BEGINNING INSTALLATION

1. To get started, turn off the power at the circuit breaker. Disconnect power leads from driver.

2. Choose a remote location for the Emergency Battery Backup, position and secure as needed. Recommended to place close to the luminaire input power wires. See illustration above for reference.

3. Remove lid of emergency battery backup. Adjust Dip Switch settings to position specified by your product part number. Locate part number and reference the chart on page 3 for the correct Dip Switch settings. 
   **Caution:** If switch is mis-configured, damage to the EBB will occur. Backup battery time will be less than 90 minutes and brightness will be less than specified.

4. Determine where to install LED indicator and test switch. To install, drill two holes for the LED indicator light 1/4" (6.3mm) and push button tester 9/32" (7.2mm).

5. For electrical connections, refer to the wiring diagram on page 6. 
   **Caution:** In all installations, the EB23UQB jacketed wires labeled ‘0-10V Retrofit or Luminaire’ must be connected to the purple and gray wires of the luminaire before power is restored.

6. Connect halves of white multi-pin battery connector together.

7. Replace the lid on the emergency backup.

8. Restore the power. At this point, LED indicator should illuminate indicating the battery is charging. Perform “TESTING” procedures (found on page 1).
Please refer to below wiring diagram:

- Connect “0-10V Retrofit or Luminaire” of emergency backup to purple and gray wires of Luminaire.
- Connect “Output line to Retrofit or Luminaire” wires of emergency backup to black and white wires of Luminaire.
- Connect “AC input line” wires of emergency backup to un-interrupted power supply wires.
- Connect “Switch line” wire of emergency backup to a switch of un-interrupted power supply wire (AC-L) or connect to a switch.
- Connect “Test Switch” wires in orange and orange/black.
- Connect “LED Indicator” wires in red/black and blue/black.
- Connect ground (green) wire to fixture ground.

* 0-10V Retrofit or Luminaire wires of EB23UQB and Luminaire must be connected before power is restored.

† Follow dimmer manufacturer’s installation instructions