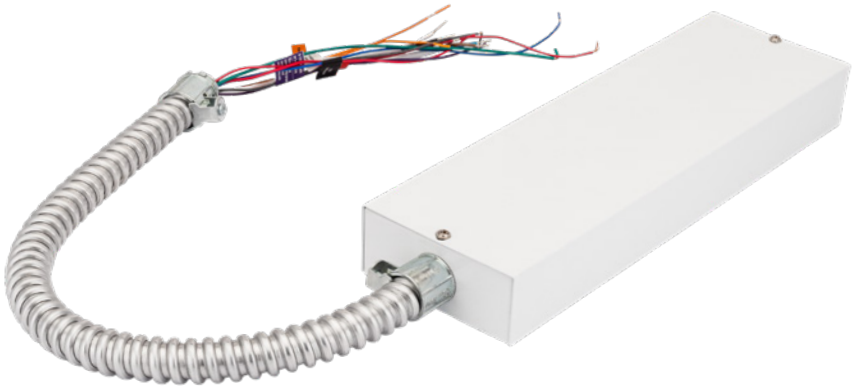


# LITETRONICS®

## ***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.

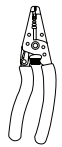
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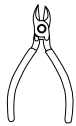
## TOOLS AND MATERIALS NEED FOR INSTALLATION



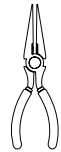
Step Ladder



Wire Stripper



Wire Cutters



Pliers



1/4" Nut Driver



Drill



Screw Driver

## WHAT COMES IN THE BOX



Test Switch



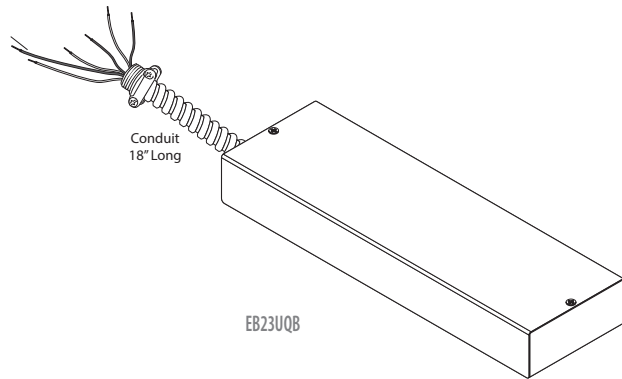
LED Indicator & Holder



(2) Self-tapping screws, #8 x 1/2"



(12) Wire Nuts



## AVAILABLE ACCESSORIES

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



Battery accessory  
(EBA45-12V)

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



Remote Test Switch  
(EBA501)

## LUMINAIRE COMPATABILITY TABLE

EB23UQB (23W 120-277V QC WH) is compatible with the following Litetronics Luminaires.

### NOTES:

Please set dip switch position before wiring LED Emergency Battery Backup.

In default factory setting, position 2 is set to ON.

Dip switch must be setup according to the corresponding part number on this table.

If no settings are specified as ON for your part number, set all dip switches to OFF.

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

[customerservice@litetronics.com](mailto:customerservice@litetronics.com)

1-800-860-3392

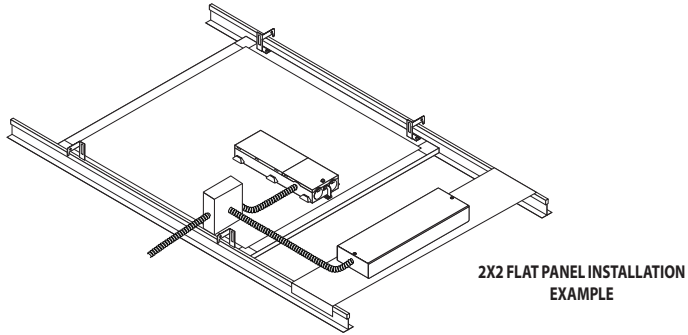
\* Warning: EB23UQB should be installed in non-hazardous location

## DIP SWITCH SETUP FOR EB23UQB

LITETRONICS' MODEL NUMBER	EMERGENCY OUTPUT WATTS	DIP SWITCH POSITION					
		1	2	3	4	5	6
<b>LED STRIP FIXTURE LUMINAIRES</b>							
SF24UQ54XXDL	23W						
SF30UQ54XXDL	22W			ON			
SF40UQ54XXDL	22W			ON		ON	
SF40UQ58XXDL	22W			ON		ON	
SF50UQ58XXDL	22W			ON		ON	ON
SF64UQ58XXDL	22W	ON		ON			
<b>LED STRIP RETROFIT</b>							
SR24UQ54XXDL	23W						
SR30UQ54XXDL	22W			ON			
SR40UQ54XXDL	22W			ON		ON	
SR40UQ58XXDL	22W			ON		ON	
SR50UQ58XXDL	22W			ON		ON	ON
SR64UQ58XXDL	22W	ON		ON			
<b>LED FLAT PANEL LUMINAIRES</b>							
FP030UF1XXDL	18W			ON			
FP030UF1XXDLP	18W			ON			
FP030UF2XXDL	18W			ON			
FP030UF2XXDLP	18W			ON			
FP040UF2XXDL	23W			ON			
FP040UF4XXDLP	23W			ON			
FP050UF4XXDL	23W			ON		ON	ON
FP050UF4XXDLP	23W			ON		ON	ON
<b>LED LIGHT PANEL LUMINAIRES</b>							
PT1XX	19W MAX			ON		ON	ON
PT2XX	19W MAX			ON		ON	ON
PT4XX	23W MAX			ON		ON	ON
<b>LED VOLUMETRIC RETROFIT</b>							
VR29UQT2XXDLP	23W			ON			
VR39UQT4XXDLP	23W			ON		ON	ON
VRT2XX	17W	ON					
VRT4XX	23W	ON					
VRT1XX	17W	ON					
<b>LED VOLUMETRIC TROFFER</b>							
VLT2XX	17W MAX					ON	
VLT4XX	18W MAX					ON	ON
VLT1XX	17W MAX					ON	
<b>LED FLAT/LIGHT PANEL RETROFIT</b>							
RP29UQT2XXDLP	18W					ON	
RP39UQT4XXDLP	18W					ON	ON
PRT2XX	17W	ON					
PRT4XX	23W	ON					
PRT1XX	17W	ON					
<b>LED LINEAR HIGH &amp; LOW BAYS</b>							
LLB075UK2XXDL	23W				ON		
LHB110UK2XXDL	23W	ON				ON	
LHB185UM2XXDL	17W				ON		
LLB60UR2XXDLP	11W					ON	
LHB88UR2XXDLP	15W					ON	
LHB112UR2XXDLP	18W					ON	
LHB148US2XXDLP	22W					ON	
LHB248UV2XXDLP	18W			ON			
<b>LED ROUND HIGH BAY LUMINAIRES</b>							
HB125[B,W]YXXDL	23W					ON	
HB185[B,W]YXXDL	20W					ON	ON
HB220[B,W]YXXDL	23W					ON	ON
HB100[B,W]YXXDLP	15W					ON	
HB150[B,W]YXXDLP	16W					ON	ON
HB200[B,W]YXXDLP	18W					ON	ON
HBC115[B,W]XXDLP	16W					ON	
HBC175[B,W]XXDLP	22W					ON	ON
HBC220[B,W]XXDLP	16W			ON			
HBC240[B,W]XXDLP	18W			ON			
HBF100[B,W]7XXDLP	20W			ON			
HBE150[B,W]YXXDLP*	22W					ON	
HBE200[B,W]YXXDLP*	22W					ON	ON
<b>LED GARAGE LIGHT LUMINAIRES</b>							
GL39URXXDLP	20W					ON	
GL59URXXDLP	22W					ON	ON

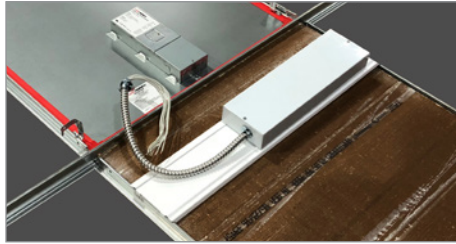
# EB23UQB REMOTE MOUNT INSTALLATION

## 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).



# EB23UQB REMOTE MOUNT INSTALLATION

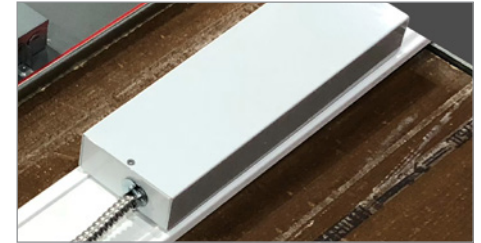
5. For electrical connections, refer to the wiring diagram on page 6.

**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).





Thank you for choosing

**LITETRONICS®**

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CustomerService@Litetronics.com or 1-800-860-3392



The information and product specifications contained in these instructions are based upon data believed to be accurate at the time of printing. This information is subject to change without notice and without incurring liability. If you have questions regarding specific product details, please contact us at 800-860-3392 or via email at [customerservice@litetronics.com](mailto:customerservice@litetronics.com).

To check for an updated version of these instructions, please visit [www.litetronics.com](http://www.litetronics.com).

12/12/19