



LITETRONICS EB10N Emergency Battery Backup Unit Instruction Manual

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LITETRONICS EB10N Emergency Battery Backup Unit

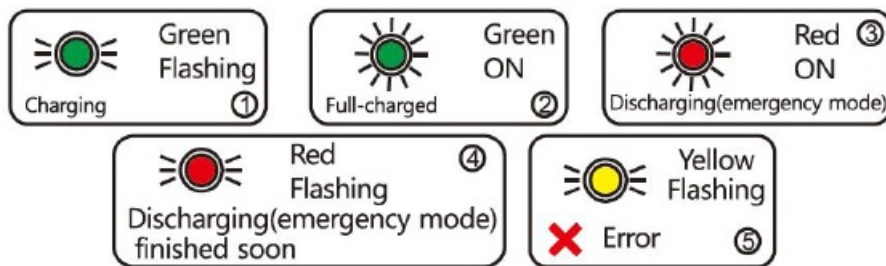
carefully to ensure proper wiring connections.

5. CAUTION: For Diagrams B, C, D, Pink/Gray & Purple Dimming leads from EMBB must be connected to Driver Dim +/- leads/terminal blocks. Failure to make this connection may result in flickering and shutdown of the LED array during emergency mode.
6. If necessary, adjust the dimming circuit to limit the driver load to 10W.
7. Once the installation is complete, periodically check the emergency battery backup to ensure it is functioning properly. Follow the recommended maintenance schedule provided in the manual.
8. If any servicing is required, it should be performed by qualified personnel.

Indicator Module Light Reference Guide

The indicator module provides various light signals to indicate the status of the emergency battery backup:

1. Green/flashing: Charging
2. Green/solid on: Fully charged
3. Red/solid on: Discharging/emergency mode
4. Red/flashing: Discharging with limited battery life remaining
5. Yellow/flashing: Error. Contact Litetronics for troubleshooting



For any specific product details or further assistance, please contact Litetronics at 800-860-3392 or email customerservice@litetronics.com.

WHAT COMES IN THE BOX

- (1) EB10N unit
- (1) Installation instructions

TOOLS NEEDED

- Wire Stripper
- Wire Cutter
- Phillips Screwdriver
- Step Ladder

OVERVIEW

Litetronics Emergency Battery Backup unit (EB10N) delivers 90-minutes of power to fixtures in the event of a power outage. When the normal power supply is present, the unit will fully charge and remain in stand-by mode.

When a power outage occurs, the unit will switch to emergency mode and deliver 10W power for a minimum of 90-minutes. When power is restored, the unit will switch back to stand-by mode and begin recharging. The EB10N is the main component to the backup system, but must be accompanied by an indicator module, which provides a set of visible indicator lights that signify the status of operation for the EB10N.

1. EBCM (Emergency Backup Ceiling-mounted Indicator Module) – This module connects to the EB10N and can be mounted in a grid panel adjacent to the fixture.

SAFETY WARNING AND INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be observed. Read and follow all safety instructions.

- Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Emergency Backup. Check for enclosed wiring and components.
- Risk of fire or electric shock. This LED Emergency Backup installation requires knowledge of luminaire and electrical systems. If not qualified, do not attempt to install. Contact a qualified electrician.
- Before installation, make certain the AC power to the fixture is off.
- The electrical rating of this product is 100-277 Vac. Installer must confirm that there is 100-277 Vac to the fixture before installation.
- To prevent electrical shock, only mate unit connector after installation is complete and before the AC power to the fixture is back on.
- Do not use outdoors.
- This LED Emergency Backup unit requires an un-switched AC power source of 100-277 Vac, 50/60Hz.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it is not subjected to tampering by unauthorized personnel. The use of accessory equipment is not recommended by the manufacturer and may cause an unsafe condition.
- Do not use this equipment for other than its intended use.
- Use with grounded, UL/ETL listed, dry or damp location rated fixtures.

COMPATIBILITY

The EB10N is compatible with the following Litetronics products and part numbers.

LED LIGHT PANEL RETROFIT/LED VOLUMETRIC RETROFIT

- PRT1XXN VRT1XXN
- PRT2XXN VRT2XXN
- PRT4XXN VRT4XXN
- LED LIGHT PANEL LED VOLUMETRIC TROFFER
- PT1XXN VLT1XXN
- PT2XXN VLT2XXN
- PT4XXN VLT4XXN

UL924 STATEMENT OF COMPLIANCE AND COMPATIBILITY

PLEASE NOTE: When used with a sensor-equipped fixture from the Approved List of Litetronics fixtures below, the sensor will be bypassed and disabled by the EB10N when wired correctly per the installation instructions and cause the fixture to remain illuminated during periods of vacancy when the compatible fixture is powered by the EB10N power source. As such, EB10N is UL924 compliant.

APPROVED FIXTURES

PRT-N, PT-N, VLT-N, VRT-N,

EB10N OPERATING INSTRUCTIONS

- Make sure that installation of the EB10N includes the EBCM indicator module.
- Once installed and powered on, the battery will begin to charge. The green, flashing indicator light will remain on until fully charged, which takes approximately 24 hours.
- Once fully charged, the green indicator light will illuminate and remain on as long as the battery remains full.
- If yellow light is flashing, a problem has been detected. Contact Litetronics for troubleshooting.
- In the event of a power failure, the fixture delivers 90 minutes of emergency light, during which the red light will remain on, then flash on/off when battery is low.

INDICATOR MODULE LIGHT REFERENCE GUIDE

1. Green/flashing = Charging
2. Green/solid on = Fully charged
3. Red/solid on = Discharging/emergency mode
4. Red/flashing = Discharging with limited battery life remaining
5. Yellow/flashing on = Error. Contact Litetronics for troubleshooting

TESTING

- The fixture includes an automatic monthly self-testing function, which operates at 30-day intervals for 5 minutes and 360-day intervals for 90 minutes. During testing, the red indicator light will remain on.
- Additional testing and demo functionality is available via remote control, part # TR01 (sold separately).

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 10W for at least 90 minutes.

SERVICE

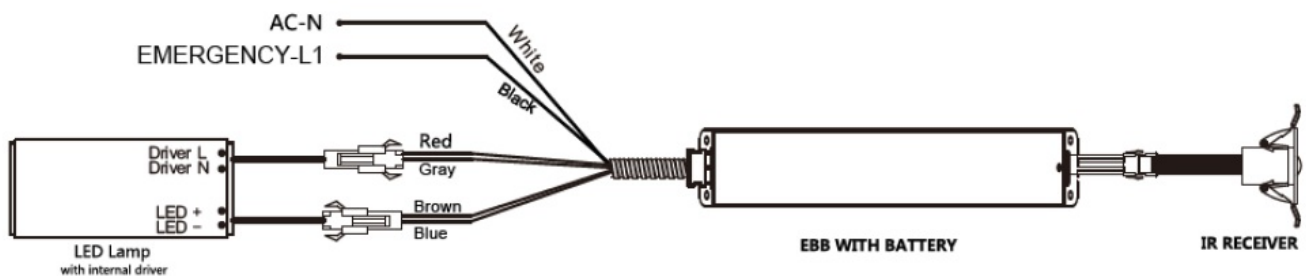
Should be performed as indicated above by qualified personnel.

INSTALLATION CEILING MOUNTED

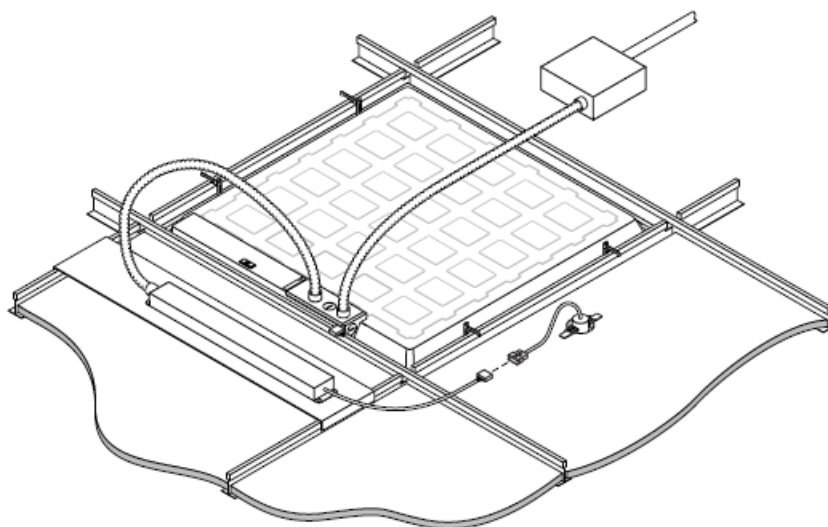
BEFORE BEGINNING INSTALLATION, TURN OFF POWER AT THE CIRCUIT BREAKER.

1. Choose a location for the Emergency Battery Backup unit and indicator module. We recommend placing the unit close to the luminaire input power wires while also making sure the indicator module will reach it's desired location. See figure A for reference.
2. Once the EBB unit is secured in place, make wiring connections based on the diagram below.
3. Mark the desired location for the indicator module on the adjacent ceiling panel. Drill a hole for the indicator to pass through that as is 1.75" in diameter.
4. Compress the spring clamps and pass the indicator module, wiring first, up through the panel until it sits flush with the bottom side. Release the spring clamps and they will hold the module in place. See figure B.
5. Connect the indicator module and unit via the quick connector.
6. Restore power to the fixture. When power is received, the green flashing light should appear, indicating that the unit is charging. An initial full charge could take up to 24 hours.

WIRING DIAGRAM



CAUTION: For Diagrams B, C, D, Pink/Gray & Purple Dimming leads from EMBB Must Be Connected to Driver Dim +/- leads / terminal Blocks. If connection is not made, the LED Array will flicker and shut down after 10 seconds in 99% of the cases while in emergency mode. In some cases, the EMBB will fail as it will overheat. Dimming circuit helps to limit higher driver load to 10W.



Note: Grid tray not Litetronics product but for illustration only.

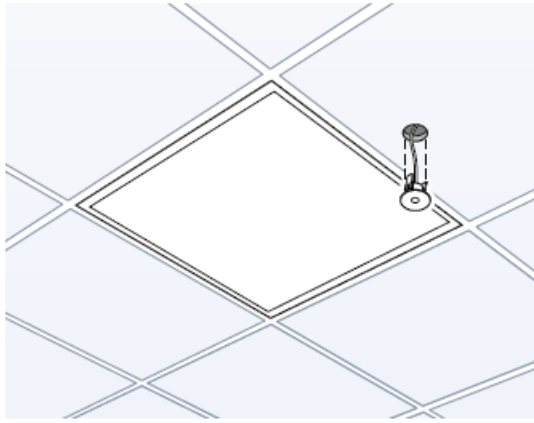


Figure 8

Thank you for choosing 6969 W. 73rd Street Bedford Park, IL 60638

www.Litetronics.com

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. To check for an updated version of these instructions, please visit www.litetronics.com.

Documents / Resources

	<p>LITETRONICS EB10N Emergency Battery Backup Unit [pdf] Instruction Manual EB10N, EB10N Emergency Battery Backup Unit, Emergency Battery Backup Unit, Battery Back up Unit, Backup Unit</p>
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References

-  [Commercial Lighting Company | LED Lighting Solutions](#)