

Chicago LED Battery Unit

**WARNING:**

Risk of Shock.

Disconnect Power before Installation.



IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. All servicing should be performed by qualified service personnel.
2. All unused wires must be insulated to prevent shorting.
3. Consult your local building code for approved wiring and installation.
4. Do not use outdoors.
5. Do not let power supply cords touch hot surfaces.
6. Do not mount near gas or electric heaters.
7. Use caution when handling batteries. Avoid possible shorting.
8. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
9. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
10. Do not use this equipment for other than intended use.
11. Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels
12. Allow battery to charge for a full 24 hours after installation or power failure before testing.
13. Unit to be installed only as per configuration described in this instruction manual.

SAVE THESE INSTRUCTIONS

Installation Instructions



IMPORTANT: Install product no higher than the maximum mounting height of 19 feet from the floor.

1. Turn off AC power.
2. Route AC circuit of rated voltage into the junction box and leave 6" wire length.
3. Remove the front cover. When required, remove battery to access Junction Box mounting holes.
4. Knock out the proper hole pattern in the back plate to mount to a standard junction box and the two key holes located at the top of the unit housing. Place a support on either side of the knockouts to be removed and then knock out with a screwdriver.
5. Route AC supply wires into the unit through the large hole.
6. Mount the unit securely to the junction box using the junction box screws. Using the two key holes provided, secure the unit to the wall. Additional chain support may be required by local codes.



Figure 1

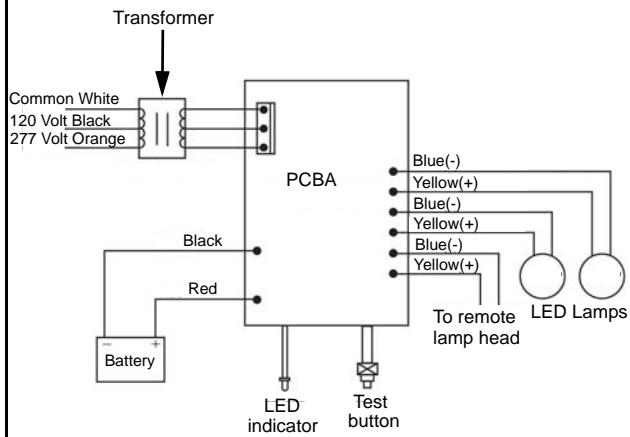


Figure 2

7. The system can accept input voltages of 120 VAC or 277 VAC. Therefore, connect the black (120 VAC) or orange (277 VAC) and white (common) leads to the building utility. Connect the green ground wire to the service ground (see fig. 2).
8. If remote fixtures are to be connected to the equipment extend the remote circuit in accordance with Article 700 and 720 of the National Electric Code (NEC) and connect to the yellow (remote positive +) and blue (remote negative -) leads coming out of the unit. (CAUTION: The minimum wire size required by the NEC is 12 gauge Copper or equivalent. Your installation may require larger sized wire to ensure that the voltage drop DOES NOT exceed 5%. Do not exceed the total output rating of the equipment including any additional mounted heads.)
9. Install and connect the battery. Refer to the illustration. Connect the Red (+) lead from the PC board assembly to the positive (+) terminal on the battery and the Blue (-) lead from the PC board assembly to the negative (-) terminal.

 **WARNING:** Failure to connect the battery properly will result in equipment failure and an unsafe condition

10. Replace and secure the front cover.
11. Turn on AC supply. The charge indicator light will illuminate.
12. Adjust lamp heads to desired position.

Manual Testing

1. Apply AC power to the unit. The LED Indicator should turn RED.
2. After the battery has been left to charge for 2 hours, test the unit by pushing the switch. The LED indicator turns OFF and the lamps on the unit turn ON.
3. When the switch is released, the lamps turn OFF and the LED indicator turns back to RED.

National Electric Code (NEC) and NFPA life safety code regulations require that routine tests need to be performed as listed below:

Once every month, the unit needs to be tested for duration of 30 seconds. Push in and hold the test switch to perform this test.

Once every 12 months, a full 90 minute (per UL requirements) test needs to be performed on the unit. Disconnect power to the unit and leave it in the emergency mode. The lamps should stay ON for at least 90 minutes.

If the lamps no longer stay on for the full duration of the test, replace the battery.

Maintenance

None required. Unit should be tested monthly in accordance with the life safety codes and local codes.

Battery has a life expectancy of 5-7 years when use in a normal ambient temperature of 72°.

When relamping, only use LED light sources specified. Using other LED light sources may result in transformer damage or unsafe conditions.

Clean lens(es) and replace lamp(s) as, and when, required.

If AC supply to the unit is to be disconnected for 2 months or more, the battery must be disconnected.

Trouble shooting guide

Condition - The emergency lights do not operate:

1. If the charge indicator light is off: Check that the circuit breaker for AC supply is ON.
2. If the charge indicator light is ON: Check that battery is properly connected. If problem persists, Replace battery. If remote lamps are connected to the equipment, then turn OFF the AC supply and disconnect the remote circuit wires from the equipment. Turn ON the AC supply and depress the test switch. If the local lamps (mounted on the equipment itself) come ON, then check the remote circuit for short or overload condition and correct as required. Reconnect the circuit wires and restore AC power.

If the local lamps don't turn ON after disconnecting the remote circuit wires, then replace battery.

Condition - Emergency lights are dim:

1. Battery not fully charged. Allow battery to recharge for 24 hours and then retest. If lights are still dim, replace battery.
2. Battery discharge. Connect unit to AC supply and allow battery to charge for 24 hours before re-testing.
3. If above trouble shooting hints do not solve your problem, contact factory for assistance.