

# INSTALLATION AND ASSEMBLY INSTRUCTIONS

## BLEDEM-CP-1200 Series Emergency LED Drivers



### IMPORTANT SAFEGUARDS

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

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS:

1. The BLEDEM-CP-1200 is designed for field installation only if determined to meet as installed egress requirements as outlined on page 4 of these instructions.
2. Installation should be performed by qualified personnel only.
3. Install in accordance with the National Electrical Code and applicable local code.
4. The BLEDEM-CP-1200 requires an unswitched AC power source of 1200 thru 277 volts, 50/60Hz.
5. The BLEDEM-CP-1200 is suitable for use in dry and damp locations where ambient temperature is 0 to 50C.
6. The BLEDEM-CP-1200 should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
7. The BLEDEM-CP-1200 is suitable for use only with LED lamps having an operating voltage of 20Vdc minimum, 50Vdc maximum and will provide 90 minutes of emergency operation.
8. To reduce the risk of electrical shock, do not connect BLEDEM-CP-1200 converter connector until installation is complete and AC power is applied to luminaire.
9. The BLEDEM-CP-1200 has more than one power source. To reduce the risk of electrical shock, remove the normal AC power source(s) to the luminaire and disconnect the BLEDEM-CP-1200 converter connector before servicing.
10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and will void warranty.
11. Do not use this equipment for other than intended use.
12. Do not mount near gas or electric heaters.
13. Servicing this equipment should be performed by qualified personnel only.
14. The BLEDEM-CP-1200 is a sealed unit. Components are not replaceable. Replace entire unit when necessary.
15. The BLEDEM-CP-1200 contains a non-replacable NiCad battery that must be recycled properly.

### SAVE THESE IMPORTANT SAFETY INSTRUCTIONS

The installation and use of this product must comply with all national, federal, state, municipal, or local codes that apply. Please read this manual thoroughly before installing or replacing BLEDEM-CP-1200 Emergency LED driver.

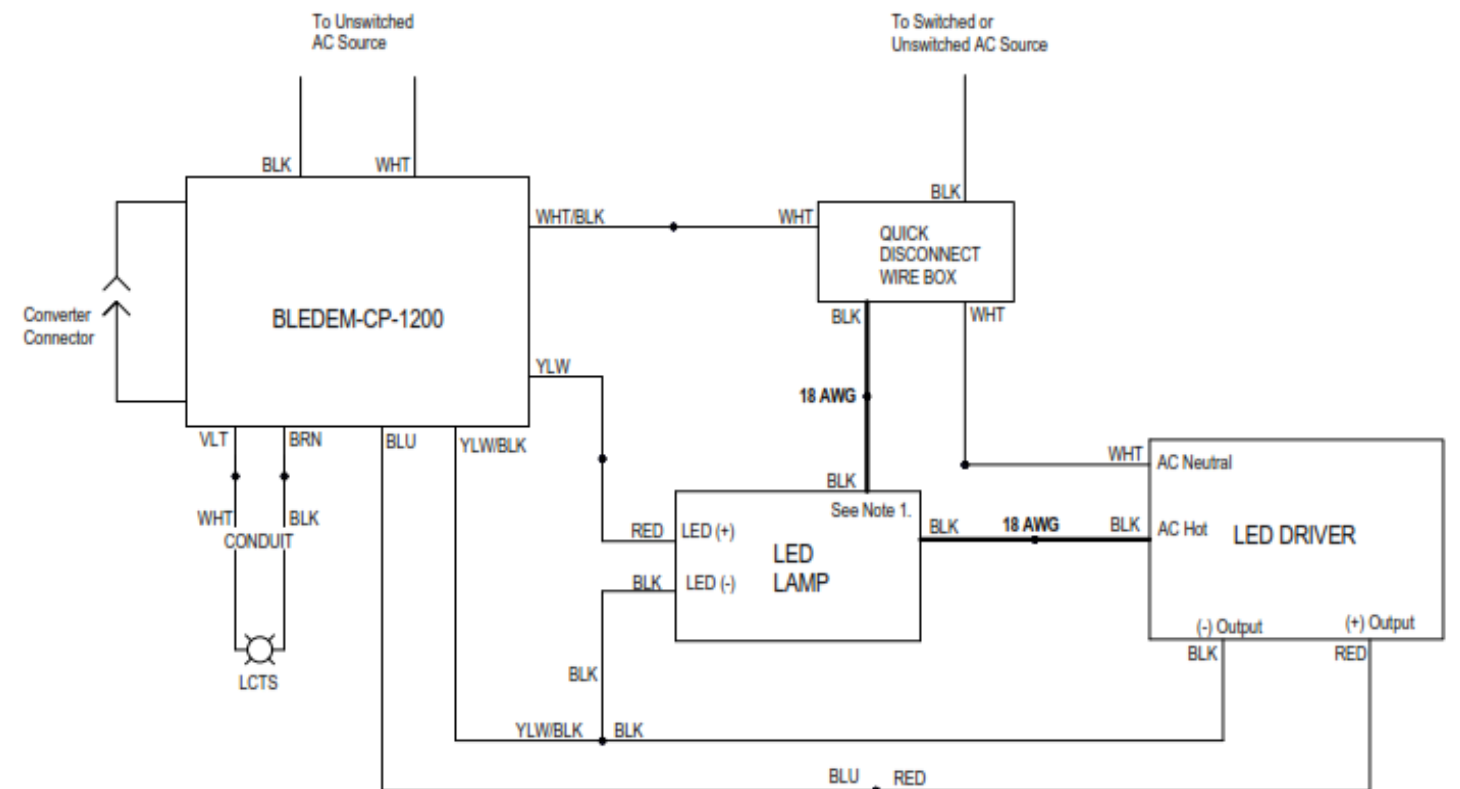
## BLEDEM-CP-1200, cont'd.

**CAUTION:** Before installing, make certain the AC power is off and the BLEDEM-CP-1200 converter connector is disconnected.

### 1) WIRING BLEDEM CP-1200

Perform all wiring with exception of Violet and Brown wires. Note: Wiring must be performed in accordance with the National Electrical Code and applicable local code. See Figure 1

FIGURE 1



### NOTE:

1.) 18AWG WIRE FROM LED LAMP IS FOR THERMAL PROTECTOR. DO NOT DISCONNECT.

## BLEDEM-CP-1200, cont'd.

### 2) MOUNTING THE BLEDEM-CP-1200

- A.) The BLEDEM-CP-1200 and AC LED driver must be on the same branch circuit.
- B.) The BLEDEM-CP-1200 requires an unswitched AC power source of 120 through 277V.
- C.) When the BLEDEM-CP-1200 is used in a switched luminaire, the AC input to the BLEDEM-CP-1200 must be connected to ahead of the luminaire switch (line side of luminaire switch). Refer to Figure

### 3) COMPLETING INSTALLATION

When installation is complete, switch the AC power ON and join the BLEDEM-CP-1200 converter connector. Refer to Figure

#### OPERATION

Normal Mode - AC power is present. The AC LED driver operates the LED lamp(s) as intended. The LCTS will be illuminated, indicating that the BLEDEM-CP-1200 is in the stand-by charging mode.

Emergency Mode - AC power fails. The BLEDEM-CP-1200 senses the AC power failure and automatically switches to Emergency Mode. One or multiple LED lamps will be illuminated for a minimum of 90 minutes. When AC power is restored, the BLEDEM-CP-1200 switches the system back to the Normal Mode and resumes battery charging.

#### TESTING AND MAINTENANCE

Pressing the LCTS simulates an AC power failure and forces the system into Emergency Mode. Only the emergency LED lamp(s) will be illuminated. Testing may also be performed by opening circuit breaker powering the system.

**Initial Testing** - Allow the unit to charge for approximately 1 hour, then press the LCTS to conduct a short test. Allow a 24 hour charge before conducting a 1-1/2 hour test.

**Monthly** - Insure that the LCTS is illuminated. Conduct a 30 second test by depressing the LCTS.

**Annually** - Insure that the LCTS is illuminated. Conduct a 1-1/2 hour test by opening circuit breaker controlling BLEDEM-CP-1200 unit(s) to be tested.

**“Written records of testing shall be kept on file for inspection by authority having jurisdiction.”**



**Installation Questions?**  
Call LSI Field Service Department at:  
1-800-436-7800 Ext. 3300  
Fax: 1-877-861-1368

## BLEDEM-CP-1200, cont'd.

### BLEDEM-CP-1200 System Coordination Guidelines

These guidelines were developed to allow the lighting system Designer/Specifier to predict the operating performance levels of LED luminaires when powered by electrically compatible model BLEDEM-CP-1200. It is ultimately the responsibility of the Designer/Specifier to insure that the as-installed system delivers code-compliance path of egress illumination.

#### 1. Determine Electrical Compatibility

- A.) Verify that the Luminaire LED driver, where applicable, is Class 2 compliant.
- B.) Verify that the Luminaire LED lamp(s) have an operating voltage between 20Vdc and 50Vdc.
- C.) Verify that the Luminaire LED lamp(s) have a power rating equal to, or greater than, the emergency power rating of the BLEDEM-CP-1200 under consideration. Model BLEDEM-CP-1200 IS RATED 7.8w constant emergency output.

#### 2. Determine Suitability of Means of Egress Lighting Levels

Using industry standard lighting design software, along with IES files for the luminaire under consideration, verify that the as-installed available Lumens are sufficient to meet code-compliant path of egress illumination levels.

***While the BLEDEM-CP-1200 has been found compliant with the requirements of UL Standard 924, it is ultimately the responsibility of the Designer/Specifier to assure the as-installed system delivers code-compliance path of egress illumination in accordance with Federal, State, or municipal requirements.***

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