

**Constant-Power Emergency LED Driver**

**Illumination**

- Works with or without an AC driver to convert new or existing LED fixtures into unobtrusive emergency lighting.
- Provides constant power output to the load during emergency mode operation.
- Can be operated as NORMALLY-ON, NORMALLY-OFF or SWITCHED LOAD.

**Electrical**

- Universal 120-277V, 50/60 Hz input.
- Charge/Power "ON" LED indicator light and push-to-test switch for mandated code compliance testing.
- Long-life, maintenance free, rechargeable lithium iron phosphate battery.
- Output short/overcurrent protection: Electronic limiting, with normal operation resuming upon removal of fault.
- 90-minute minimum emergency operating time over full temperature range.
- Output classification: Class 2 Compliant.
- Surge protection: Per C62.41 (TVS).
- Input overcurrent protection: Fusible link.
- 24 Hour maximum battery recharge time.

**Housing**

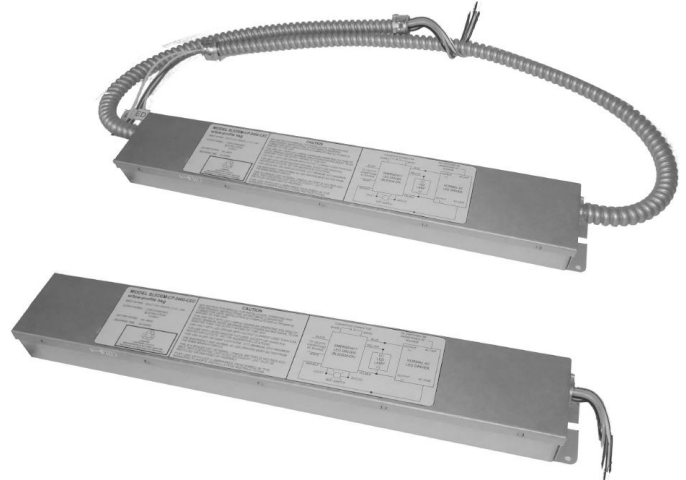
- LED illuminated and remote mounted test switch.
- Low profile galvanized steel construction.
- Compact design allows for installation of non-conduit models, inside most LED fixtures.

**Mounting**

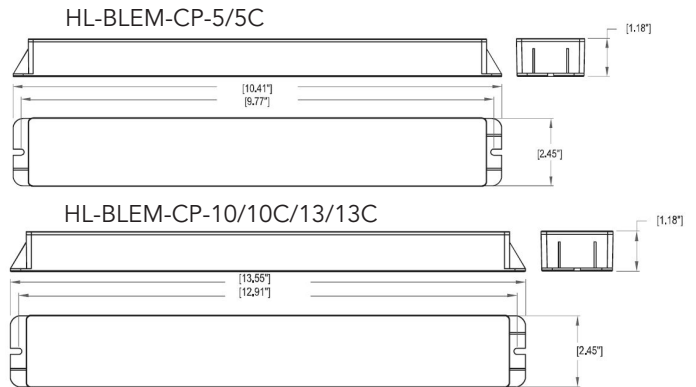
- Standard models suitable for installation inside, or on top of the LED fixtures
- Conduit models suitable for remote mount to LED fixture.

**Warranty & Listings**

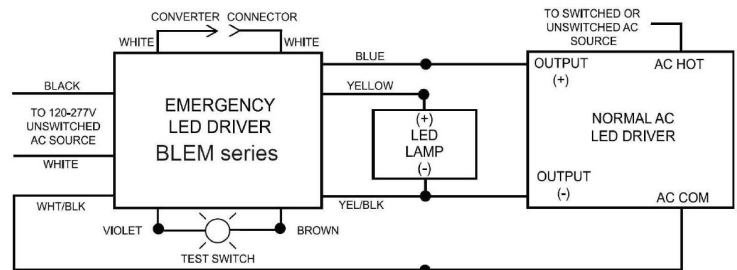
- UL Listed for factory or field installation.
- Suitable for damp locations (10°C - 55°C).
- 5 year warranty on all electronics and housing.
- Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State codes.
- Certified to CEC under Title 20 regulation



**Dimensions**



**Wiring Diagram**



**Ordering Information**

Model	Output Operating Range		Constant Output Power	Electrical Information	
	Voltage (Vdc)	Current (mAdc)	(Watts)	Input Current (A)	Input Power (W)
HL-BLEM-CP-5 HL-BLEM-CP-5C*	20-50	250-100	5.0	0.061	3.9
HL-BLEM-CP-10 HL-BLEM-CP-10C*	20-50	535-214	10.7	0.087	5.7
HL-BLEM-CP-13 HL-BLEM-CP-13C*	20-50	685-214	13.7	0.110	6.9

\*These models have 2-ft conduit on each end. When battery packs are remote mounted, the remote distance from driver to LED load specified by the AC driver manufacturer. The maximum allowable remote mounting distance is 20 feet.

## **BLEM-CP Series 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 an electrically compatible HL-BLEM-CP Series model. It is ultimately the responsibility of the Designer/Specifier to insure that the as installed system delivers code-compliant 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 HL-BLEM-CP model under consideration (please refer to Ordering Information Table on page 1).

### **2) Calculate Lumen Output During Emergency Operation**

- A) Access luminaire data by logging onto Designlights Consortium ([www.designlights.org](http://www.designlights.org)).
- B) Select "Search the DLC Qualified Product List" on the DLC homepage.
- C) Enter manufacturer name and P/N of luminaire under consideration in the "search by keyword" text window.
- D) Select "Search" tab to open the "Qualified Products List".
- E) Determine luminaire Lumens per Watt efficacy in "Rated Data" specifications.
- F) Multiply luminaire Lumens per Watt by Emergency Output of the HL-BLEM-CP model under consideration (please refer to Ordering Information Table on page 1). This figure is the Lumens available from the luminaire during emergency operation.

### **3) 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 (as calculated in 2F above) are sufficient to meet Code-compliant path of egress illumination levels.

While the HL-BLEM-CP series 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-compliant path of egress illumination in accordance with Federal, State or local municipal requirements.