



BLEDM-CP



CONSTANT POWER LED EMERGENCY DRIVER

UL Classified for field or factory installation

PROJECT:
FIXTURE TYPE:
LOCATION:
CONTACT/PHONE:

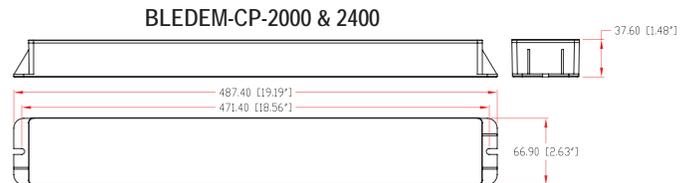
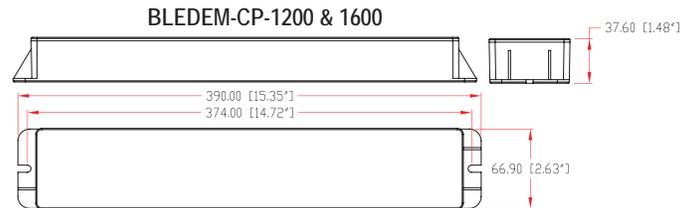
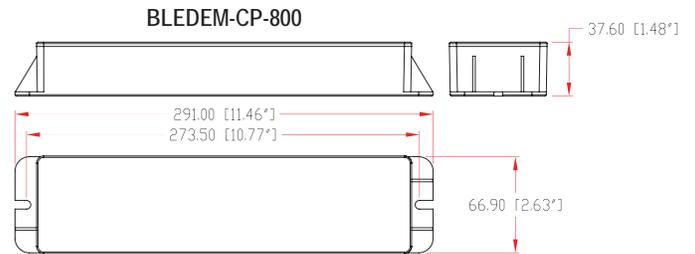
PRODUCT SPECIFICATIONS

APPLICATION

The BLEDM-CP is a UL Classified LED emergency driver that allows the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the BLEDM-CP switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can and will provide constant power output to the load during emergency operation. The Constant Power design of the BLEDM-CP maintains the output wattage to the LED array even as the system voltage diminishes.

FEATURES

- UL 924 Listed, UL Classified to FTBV
- UL 1310 Certified, Output Class 2 Compliant
- Universal 100-277V, 50/60Hz input
- Self-sensing output voltage (20-50VDC) operates various product types, such as downlights, troffers, or strips
- Long life, high temperature recyclable Ni-Cad battery
- Injection molded, engineering grade, 5VA flame retardant high impact resistant, thermoplastic housing
- 90 minute runtime with no light degradation, 24 Hour recharge
- Surge protection: Per C62.41 (TVS), Input overcurrent protection: Fusible link
- Includes push-to-test switch and charge indicator accessory kit
- For use with switched or unswitched fixtures
- 5-Year Warranty
- Meets or exceeds all NEC, IBC, and Life Safety
- Operating temperature: 0° to 55° C
- Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires
- Suitable for installation inside, on top, or remote mount from the fixture



ORDERING INFORMATION

Lumen output based on LED light source having efficacy of 160 lumens/watt. Actual output may vary depending on light source utilized.

Provides regulated power from 5.0 watts to 17.0 watts (up to 800 to 2400 lumens)

MODEL	OUTPUT OPERATING RANGE		OUTPUT POWER	
	VOLTAGE (Vdc)	CURRENT (mAdc)	(Watts)	(Lumens)
BLEDEM-CP-800	20-50	250-100	5.0	800
BLEDEM-CP-1200	20-50	390-156	7.8	1250
BLEDEM-CP-1600	20-50	535-214	10.7	1700
BLEDEM-CP-2000	20-50	685-274	13.7	2200
BLEDEM-CP-2400	20-50	850-340	17.0	2700





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ELECTRICAL INFORMATION

MODEL	INPUT CURRENT (A)	INPUT POWER (W)
BLEDEM-CP-800	0.061	3.9
BLEDEM-CP-1200	0.065	4.8
BLEDEM-CP-1600	0.087	5.7
BLEDEM-CP-2000	0.110	6.9
BLEDEM-CP-2400	0.110	7.9

BLEDEM-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 BLEDEM-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 BLEDEM-CP model under consideration.

Please refer to Table 1.

2) Calculate Lumen Output During Emergency Operation

- A) Access luminaire data by logging onto DesignLights Consortium (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 BLEDEM-CP model under consideration. Please refer to Table 1.

MODEL	OUTPUT POWER (constant)
BLEDEM-CP-800	5.0 watts
BLEDEM-CP-1200	7.8 watts
BLEDEM-CP-1600	10.7 watts
BLEDEM-CP-2000	13.7 watts
BLEDEM-CP-2400	17.0 watts

Example:

BLEDEM-CP = 13.7W
 DLC EFF = 100 lumens/watt
 EM Lumens = 13.7 W x 100 lumens/watt = 1370 lumens

This figure is the Lumens available from the luminaire during emergency operation.

3) Determine Suitability of Means of Egress Lighting Levels

- A) 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 BLEDEM-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.