carpenter
EMERGENCY LIGHTING

Fixture Type:	
Model Number:	
Project:	

LEBU-CP Constant Power Emergency LED Driver

ORDERING GUIDE

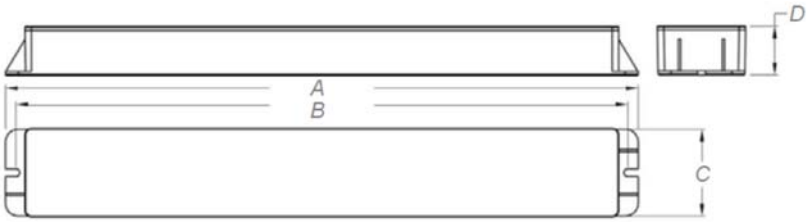
MODEL	OUTPUT OPERATING RANGE		OUTPUT POWER
	VOLTAGE	CURRENT	WATTS
LEBU-CP-5C	20 - 50 VDC	250-100 mA	5.0
LEBU-CP-10C	20 - 50 VDC	535-214 mA	10.7
LEBU-CP-13C	20 - 50 VDC	685-274 mA	13.7

Units are supplied with 2 foot flex conduit on each end.
When battery packs are remote mounted, the remote distance cannot exceed ½ of the distance from driver to LED load specified by the A.C. driver manufacturer. The maximum allowable remote mounting distance is 20 feet.

DESCRIPTION

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

DIMENSIONS



MODEL	A	B	C	D
LEBU-CP-5/5C	10-7/16"	9-13/16"	2-1/2"	1-3/16"
LEBU-CP-10/10C & 13 &13C	13-9/16"	12-15/16"	2-1/2"	1-3/16"

STANDARD FEATURES

- *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 NiCad 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 (other run times available upon request).*
- *Output classification: Class 2 Compliant.*
- *Surge protection: Per C62.41 (TVS).*
- *Input overcurrent protection: Fusible link.*
- *24 Hour maximum battery recharge time.*
- *Provided with 2 foot flexible conduit*

AGENCY APPROVALS

UL classified for factory or field installation
Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA, Local and State Codes.
UL listed for wet locations. (0°C – 50°C)

WARRANTY

Five year warranty on all electronics and housing.
Battery is pro-rated for five years.

Carpenter Emergency Lighting
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ELECTRICAL SPECIFICATIONS

MODEL	INPUT CURRENT (A)	INPUT POWER (W)
LEBU-CP-5C	*0.061*	*3.9*
LEBU-CP-10C	*0.087*	*5.7*
LEBU-CP-13C	*0.110*	*6.9*

TABLE1	
MODEL	OUTPUT POWER (constant)
LEBU-CP-5C	*5.0 watts*
LEBU-CP-10C	*10.7 watts*
LEBU-CP-13C	*13.7 watts*

LEDBU-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 LEBU-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.

Determine Electrical Compatibility

- Verify that the Luminaire LED Driver, where applicable, is Class 2 compliant.
- Verify that the Luminaire LED Lamp(s) have an operating voltage between 20Vdc and 50Vdc.
- Verify that the Luminaire LED Lamp(s) have a power rating equal to, or greater than, the emergency power rating of the LE-BU-CP model under consideration.
- **Please refer to Table 1 above.**

Calculate Lumen Output During Emergency Operation

- Access luminaire data by logging onto Design Lites Consortium (www.designlights.org).
- Select “Search the DLC Qualified Product List’ on the DLC homepage.
- Enter manufacturer name and P/N of luminaire under consideration in the “search by keyword” text window.
- Select ”Search” tab to open the “Qualified Products List”.
- Determine luminaire Lumens per Watt efficacy in “Rated Data” specifications.
- Multiply luminaire Lumens per Watt by Emergency Output of the LEBU-CP model under consideration.
- Please refer to Table 1.
- This figure is the Lumens available from the luminaire during emergency operation.

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 LEBU-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.

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