

DESCRIPTION

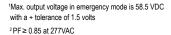
The **ILB CP10 HE SD** from IOTA is a UL Listed LED emergency driver that allows the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the **ILB CP10 HE SD** switches to the emergency mode and operates the existing fixture for **90 minutes**. The unit contains a battery, charger, and converter circuit in a single enclosure and is available in different mounting configurations for individual fixture requirements. The **ILB CP10 HE SD** will operate an LED array load at **10 watts** with **constant power** at a rated output voltage of **10V-60V**. The Constant Power design of the **ILB CP10 HE SD** maintains the output wattage to the LED array, providing consistent illumination for the entire emergency runtime. The integrated self-diagnostic circuitry will **automatically conduct monthly 30-second and annual 90-minute tests** to verify proper emergency capability per Life Safety Code requirements. The **ILB CP10 HE SD** features high-efficiency performance and is certified in the CA Title 20 Appliance Efficiency Database.

SPECIFICATIONS

Input Voltage	(Universal) 120-277VAC, 50/60Hz
Input Rating (120/277)	
Output Voltage ¹	
Output Current	1.0A (@10VDC) - 0.16A (@60VDC)
Output Power	
Max. AC Driver Output Current	
Power Factor	
Surge Protection	Meets ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Operating Temp	0° to 55° C
THD	< 20%
EMI	Complies to FCC commercial limits
Battery	High Temp Nickel-Cadmium
	24 Hour Recharge 7-10 Year Life Expectancy
Weight (configuration)	

Certifications cUL Listed for factory and field installation CA T20 Appliance Efficiency Database



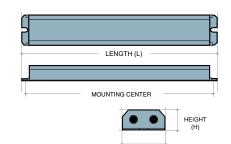


DIMENSIONS

A / J / R Configurations (L) 15.37" x (W) 2.24" x (H) 1.30" (mounting center 15.0")

B Configurations (L) 15.0" x (W) 2.2" x (H) 1.2" (mounting center 14.64")

1361 E. Wieding Road, Tucson, AZ 85706



Phone: 1-800-866-4682

WIDTH (W)

ILB CP10 HE SD

Constant Power Self-Diagnostic Emergency LED Driver

MODEL NO:	
TYPE:	
····E	
PROJECT:	

COMMENTS:

LUMEN PERFORMANCE

Fixture Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	1000	1000	1000
110 lm/W	1100	1100	1100
120 lm/W	1200	1200	1200
130 lm/W	1300	1300	1300

PRODUCT ADVANTAGES

• Self Test / Self Diagnostics

Self-Diagnostic Capability satisfies the periodic testing requirements in accordance with NFPA 101 and conducts internal circuity testing of battery, charger, and load performance.

Certified for CA Title 20

High Efficiency Performance meets CA Title 20 battery charger efficiency standards

- Auto-Sensing Class 2 Output
 Auto-adjusting 10-60 VDC output range accommodates a
 full range of Class 2 forward voltage LED designs
- Constant Power Performance
 Constant wattage delivery maintains illumination for the full emergency runtime with no degradation
- Listed for Field or Factory Installation
 UL Listed for both field or factory installation in
 United States and Canada

FEATURES

- UL 924 Listed, UL Listed and Classified to FTBV
- UL 1310 Certified, Output Class 2 Compliant
- Six mounting configurations available
- Long life high temperature recyclable Ni-Cad battery
- Galvanized steel case
- Includes dual-color TBTS test switch/charge indicator
- For use with switched or unswitched fixtures
- Expanded functionality allows tests to be manually initiated or canceled by local switching controls.
- 5-Year Warranty.
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting Requirements
- Suitable for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires
- RoHS Compliant



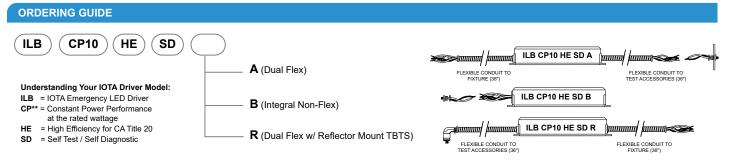
Patented. See www.iotaengineering.com/patents for details.

E-mail: techsupport@iotaengineering.com

Product specifications are subject to change without notice

ILB CP10 HE SD

Constant Power Self Diagnostic Emergency LED Driver



ILB CP10 HE SD Sample Specification

Supply and install IOTA [Insert 10W HE model number] Constant Power Self Diagnostic emergency LED driver system as indicated on the plans. The emergency driver shall be designed for [Select"Internal" or "External"] mounting to the luminaire including a self-contained, high-temperature, sealed, maintenance-free nickel cadmium battery rated for a 10-year service life. The unit shall be provided complete with an illuminated push to test switch. The emergency driver system shall be UL class 2 certified in accordance with UL 1310 and shall be UL listed for use in damp locations and in enclosed and gasketed fixtures with a temperature range of 0° to 55° C.

The AC input shall be a two-wire, universal voltage capable 120 thru 277 VAC, 50/60 Hz and be UL Listed to Category Control Number (CCN) FTBR, Emergency Lighting and Power Equipment, and FTBV, Emergency Light-Emitting-Diode Drivers for field installation. Maximum input power of the emergency driver shall be 3.7 watts. The unit shall monitor and adjust the input power consumption and be certified in the CA Title 20 Modernized Appliance Efficiency Database System (MAEDBS) as a small battery charger.

The unit charger shall consist of a two-stage charging system which samples the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit protected with reverse polarity protection. A low voltage battery disconnect (LVD) circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches approximately 80 to 85% of its nominal terminal voltage, preventing a non-recoverable, deep-discharge condition as well as equipment initialization failure when utility power is restored. The unit shall achieve a full recharge in 24-hours.

The input shall be designed to automatically test the emergency lighting capability for no less than 30 seconds monthly and 90 minutes annually, and shall monitor battery charge and battery discharge current and load performance. A dual-color light-emitting LED shall be provided to indicate test results and charge status.

The emergency driver shall accommodate an LED load with a forward voltage requirement ranging from 10 to 60 VDC. The output voltage sensing shall be automatic and instantaneous with a resulting, inversely-proportional current to maintain constant power to the LED array with an output tolerance of +/- 3%. The unit shall supply the rated load for a minimum of 11/2 hours or to 87 1/2% of rated battery terminal voltage. The output power to the LED load during emergency operation shall be held constant 10 watts from minute one throughout the entire emergency run time resulting in no loss or degradation of the light source during emergency operation.

The unit shall be furnished with an electronic, AC-lockout circuit which will connect the battery when the AC circuit is activated, and an electronic brownout circuit which will enable a transfer to emergency operation when utility power dips below an acceptable level. Maximum remote mounting distance of the emergency driver shall be 50-feet.

Emergency Lumen Performance - ILB CP10 HE SD

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	1000	1000	1000
110 lm/W	1100	1100	1100
120 lm/W	1200	1200	1200
130 lm/W	1300	1300	1300



Visit www.iotaengineering.com/cptools to access our on-line ILB CP performance calculator for additional performance data and other specification resources.



The ILB CP10 HE SD is UL Listed and Classified for Field Installation. Refer to the "CP Series Compatibility and Suitability of Use Guidelines" addendum for complete project installation requirements.

The TBTS LED will flash GREEN when charging and remain lit solid GREEN when fully charged and in the standby mode. If a problem is encountered during the test cycle, the TBTS will flash RED, according to the diagnostic codes shown here:

1 Flash Charger Failure 2 Flashes

3 Flashes

ACCESSORIES

O TMK80 Top Mount Cover

When top-mounting "B" configuration ILB CP units, the TMK80 is used to cover the exposed wiring that goes from the battery pack into the fixture.

TBMK T-Grid Mounting Kit

Use the TBMK mounting kit to remote mount flexed units within a grid ceiling. The ILB CP is secured to the TBMK bars which mount to the T-bars of the ceiling grid. The flexible conduit of the ILB CP connects to the fixture.

O RME1 Remote Mounting Enclosure

Battery Failure

Load Failure

The RME1 enclosures accepts "B" configuration ILB CP units for remote mounting. The ILB CP is secured within the enclosure and wiring is routed through the 2 ft. of flexible conduit. Can be used in conjunction with the TBMK for arid ceilings.

Warranty: 5-Year Limited Warranty

Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

IOTA REV 052323

Patented. See www.iotaengineering.com/patents for details.

IOTA Emergency Lighting 1361 E. Wieding Road, Tucson, AZ 85706 Phone: 1-800-866-4682 E-mail: techsupport@iotaengineering.com Web: www.iotaengineering.com © 2019 Acuity Brands Lighting, Inc.