

MODEL NO: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PROJECT: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

## DESCRIPTION

The **ILB CP10 L** from IOTA is a UL Component Recognized 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 L** switches to the emergency mode and operates the existing fixture for **90 minutes**. The unit includes a charger and converter circuit assembly, and a separate battery pack component. The **ILB CP10 L** 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 L** maintains the output wattage to the LED array resulting in non-diminishing illumination for the entire runtime.

## SPECIFICATIONS

Input Voltage .....	(Universal) 120-277VAC, 50/60Hz
Input Rating (120/277) .....	3.7 Watts (max)
Output Voltage <sup>1</sup> .....	10-60VDC Class 2 Compliant
Output Current .....	1.0A (@10VDC) - 0.16A (@60VDC)
Output Power .....	10 Watts (constant)
Max. AC Driver Output Current .....	3A <sub>dc</sub>
Power Factor .....	≥ 0.9
Emergency Operation .....	90 minutes
Operating Temp .....	0° to 55° C
THD .....	< 20%
Battery .....	High Temp Nickel-Cadmium 24 Hour Recharge 7-10 Year Life Expectancy
Weight (configuration) .....	3.5 lbs.
UL Conditions of Acceptability .....	Must be factory wired. Battery temperature must not exceed 55° C

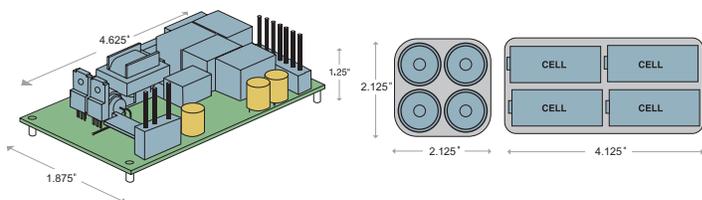
<sup>1</sup>Max. output voltage in emergency mode is 58.5 VDC with a + tolerance of 1.5 volts



## DIMENSIONS

ILB CP10 L Circuit Board: 4.625" x 1.875" x 1.25"

ILB CP10 L Battery: 2.125" x 2.125" x 4.125"



## 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

- **Versatile Open Board Design**  
Flexible open board and separate battery configuration adapts to fixture space requirements
- **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

## FEATURES

- UL 1310 Certified, Output Class 2 Compliant
- Long life high temperature recyclable Ni-Cad battery
- Includes single-piece TBTS 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 Code Emergency Lighting Requirements
- Suitable for use in damp location luminaires
- RoHS Compliant



# ILB CP10 L

Constant Power Open Board Emergency LED Driver Kit

## ORDERING GUIDE

ILB

CP10

L

### Understanding Your IOTA Driver Model:

ILB = IOTA Emergency LED Driver

CP\*\* = Constant Power Performance  
at the rated wattage

L = Open Circuit Board and Separate Battery

### ILB CP10 L Sample Specification

Install IOTA ILB-CP10-L Constant Power emergency LED driver kit as indicated on the plans. The emergency driver kit shall be designed for internal mounting to the luminaire including a charger and converter circuit board assembly and a 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 suitable for use in damp locations 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 with a maximum input power of 3.7 watts.

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 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 1 1/2 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.

### Emergency Lumen Performance - ILB CP10 L

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](http://www.iotaengineering.com/cptools) to access our on-line ILB CP performance calculator for additional performance data and other specification resources.

### Warranty: 5-Year Limited Warranty

Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)