

MODEL NO: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

### LED OPERATION

5W LED Load @ 10-60VDC nom.<sup>1</sup>

### OUTPUT

5 Watts [Constant]

### DESCRIPTION

The **ILB-SL-CP05** from IOTA is a UL Listed and 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 **ILB-SL-CP05** 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 slim profile can for installation within the channel space or wireway. The **ILB-SL-CP05** will operate an LED array load at **5 watts** with **constant power** at a rated output voltage of **10-60 VDC**. The Constant Power design of the **ILB-SL-CP05** maintains the output wattage to the LED array even as the system voltage diminishes, providing a consistent illumination level for the full 90-minute emergency duration.

### SPECIFICATIONS

Input Voltage .....	(Universal) 120-277V, 50/60Hz
Input Rating .....	2.7 Watts (max)
Output Voltage <sup>1</sup> .....	10-60 VDC Class 2 Compliant
Output Current .....	0.5A (@10VDC) - 0.083A (@60VDC)
Output Power .....	5 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 .....	2.4 lbs.
Approval .....	UL Listed and Classified for factory and field installation

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



### PRODUCT ADVANTAGES

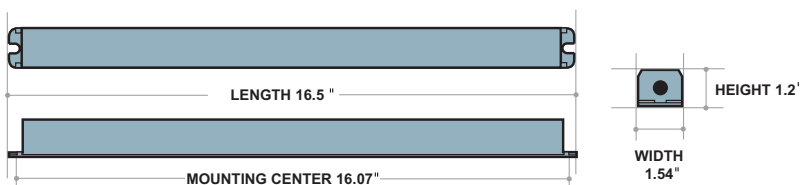
- **UL Listed for factory and field installation**
- **Constant Power Design maintains illumination throughout the 90-minute runtime with no light degradation**
- **Slim Profile housing allows integral installation within restrictive and narrow channel spaces of strip and troffer fixtures**
- **Two-wire universal AC input**
- **Self-sensing output voltage allows the CP Series to operate various product types, reducing product SKUs for emergency options**

### FEATURES

- UL 924 Listed, UL Listed and Classified to FTBV
- UL 1310 Certified, Output Class 2 Compliant
- Long life high temperature recyclable Ni-Cad battery
- Galvanized steel case
- Includes single-piece TBTS test switch and charge indicator accessory kit
- For use with switched or unswitched fixtures
- **5-Year Warranty.** See Warranty Page for details.
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting Requirements
- Rated for use in Plenum, Damp Location, Recessed Type IC, and Enclosed and Gasketed Luminaires
- RoHS Compliant

### DIMENSIONS

16.5" x 1.54" x 1.2" (mounting center 16.07")



# ILB-SL-CP05

CONSTANT POWER LED EMERGENCY DRIVER

## ORDERING GUIDE

ILB - SL - CP05



### ILB-SL-CP05 SAMPLE SPECIFICATION

Supply and install IOTA ILB-SL-CP05 Constant Power emergency LED driver system as indicated on the plans. The emergency driver shall be designed for 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 2.7 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 5 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-SL-CP05

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	500	500	500
110 lm/W	550	550	550
120 lm/W	600	600	600
130 lm/W	650	650	650



Visit [www.iotaengineering.com/cptools](http://www.iotaengineering.com/cptools) to access our online CP performance calculator for additional performance data and other specification resources.



The **ILB-SL-CP05** 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.

## ACCESSORIES

### ○ TMK-ISL Top Mount Cover

When top-mounting ILB-SL-CP units, the TMK-ISL is used to cover the exposed wiring that goes from the battery pack into the fixture.

