PRODUCT SPECIFICATION SHEET



DESCRIPTION

The **ILBLP CP10 HE SD LC** from IOTA is a UL 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 **ILBLP CP10 HE SD LC** switches power from the normal AC Driver and operates the fixture for **90 minutes** in the emergency mode from the unit's battery supply. The unit contains a charger and converter circuit in a narrow profile enclosure with separate battery for installation within the channel space or wireway. The **ILBLP CP10 HE SD LC** will operate an LED load at **10 watts** with **constant power** at a rated output voltage of **15V-55V**. The Constant Power design of the **ILBLP CP10 HE SD LC** maintains the output wattage to the LED array even as the system voltage diminishes, providing a consistent illumination level for the full 90-minute runtime. Features lithium battery technology for **significantly decreased form factor** and includes automatic monthly and annual **self-testing** features as standard.

SPECIFICATIONS

| Input Voltage | (Universal) 120-277VAC, 50/60Hz |
|-------------------------------|--|
| Input Rating | 0.072A (max) |
| Output Voltage ¹ | |
| Output Current | |
| Output Power | |
| Max. AC Driver Output Current | |
| Surge Protection | Meets ANSI/IEEE C62.41.2-2002 |
| Emergency Operation | |
| Operating Temp | |
| EMI | Complies to FCC Commercial Limits |
| Battery | Lithium Iron-Phosphate 24 Hour Recharge 5-7 Year Life Expectancy |
| Weight | 1.5 lbs. |
| Certifications | UL Recognized Component CA T20 Appliance Efficiency Database |

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

DIMENSIONS

| Electronics Housing: 8.64" x 1.18" x 1.18" Battery (length, diameter): 7.92" x 1.04" | LENGTH 8.64° | HEIGHT 1.18" WIDTH 1.18" |
|---|--------------|--------------------------------|
| | BATTERY | |

ILBLP CP10 HE SD LC

Constant Power Emergency LED Driver

| MODEL NO: | |
|-----------|--|
| TYPE: | |
| 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

• Constant Power Performance

Constant wattage delivery maintains illumination for the full emergency runtime with no degradation

• Versatile Component Design

Minimal enclosure and separate lithium battery design provides installation flexibility within fixture compartment spaces.

Self-Diagnostic / Self-Testing

Monthly and annual self-testing feature satisfies the periodic testing requirements in accordance with NFPA 101 while the on-board diagnostics provides system readiness with visual indicators.

FEATURES

- Auto-Sense 15-55VDC output is UL 1310 Certified, Output Class 2 Compliant
- Circuitry enclosed in white painted steel case
- Long life high temperature recyclable Lithium Iron-Phosphate battery
- AC-Activate circuity simplifies wiring by eliminating the need for manual battery connection during installation
- 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
- Certified to CA Title 20 and registered in the Modernized Appliance Efficiency Database (MAEDBS)
- Suitable for use in Plenum, Damp Location, and Recessed Type IC Luminaires





Product specifications are subject to change without notice

LED

IOTA REV 021821

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ILBLP CP10 HE SD LC

Constant Power Emergency LED Driver

ORDERING GUIDE



Understanding Your IOTA Driver Model:

ILBLP = IOTA Emergency LED Driver with Lithium Battery Technology

CP** = Constant Power Performance at the rated wattage **HE** = High efficiency charging control for CA Title 20 requirements

SD = Self-diagnostic capability

LC = Electronics enclosure with separate battery

= Electronics enclosure with separate battery

ILBLP CP10 HE SD LC Sample Specification

Supply and install IOTA ILBLP CP10 HE SD LC Constant Power emergency LED driver system as indicated on the plans. The emergency driver shall be designed for internal mounting to the luminaire including a self-contained, high-temperature, sealed, maintenance-free lithium iron-phosphate battery rated for a 5 to 7-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 location 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 0.11A.

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 unit 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 15 to 55VDC. 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 +/- 5%. 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 electronic AC-Activate circuitry which will connect the battery when the branch circuit is energized, and an electronic brownout circuit which will enable a transfer to emergency operation when utility power dips below an acceptable level.

Emergency Lumen Performance - ILBLP CP10 HE SD LC

| 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 |

DIAGNOSTIC CODES

The charge indicator (TBTS) LED will flash **RED** when charging and remain lit solid **GREEN** when fully charged and in the standby mode. The TBTS will flash **GREEN** when self-testing. If a problem is encountered during the test cycle, the TBTS will flash **RED**, according to the diagnostic codes below:

| STATUS INDICATION | CONDITION |
|--------------------|-------------------------------------|
| STEADY GREEN | NORMAL MODE |
| STEADY RED | BATTERY IS CHARGING |
| FLASHING GREEN | SELF-TESTING |
| OFF | EMERGENCY MODE |
| FLASHING RED/GREEN | INSUFFICIENT CHARGE |
| 1 RED FLASH | BATTERY PACK FAILURE |
| 2 RED FLASHES | EMERGENCY LAMP FAILURE |
| 3 RED FLASHES | FIXTURE DIAGNOSTIC FAILURE DETECTED |
| 4 RED FLASHES | TEMPERATURE OUT OF RANGE |

Attention: Refer to the IATA website at https://www.iata.org for air transporation requirements and restrictions for lithium batteries and products containing lithium batteries.

Contact IOTA Customer Service to learn more about IOTA standards and best practices for the shipping, handling, and storage of IOTA lithium battery products.

Warranty: 5-Year Limited Warranty

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

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