

ILBLP CP07 HE SD

Constant Power Emergency LED Driver

PRODUCT SPECIFICATION SHEET



REDUCED FOOTPRINT
WITH LITHIUM TECHNOLOGY

CERTIFIED IN CA TITLE 20
Appliance Efficiency Database -
Battery Charger

SELF-DIAGNOSTIC
AUTOMATIC MONTHLY & ANNUAL TESTING

AC ACTIVATE
FOR SIMPLER INSTALLATION



MODEL NO: _____

TYPE: _____

PROJECT: _____

COMMENTS: _____

LUMEN PERFORMANCE

Fixture Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	700	700	700
110 lm/W	770	770	770
120 lm/W	840	840	840
130 lm/W	910	910	910

DESCRIPTION

The IOTA® **ILBLP CP07 HE SD** 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 **ILBLP CP07 HE SD** 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 battery, charger, and converter circuit in a minimal profile enclosure for installation within the channel space, enclosure, or wireway. The **ILBLP CP07** will operate an LED array load at **7 watts** with **constant power** at a rated output voltage of **10V-55V**. The Constant Power design of the **ILBLP CP07** maintains the output wattage to the LED array even as the system voltage diminishes. Features lithium battery technology for **significantly decreased form factor** and includes automatic monthly and annual **self-testing** features as standard.

SPECIFICATIONS

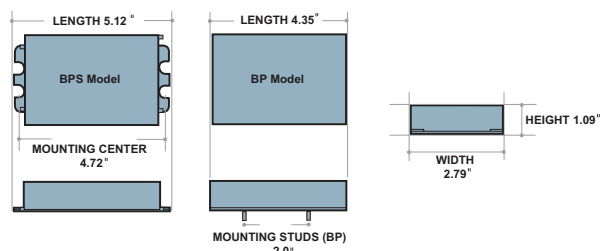
Input Voltage	(Universal) 120-277VAC, 50/60Hz
Input Rating	32mA (max)
Output Voltage ¹	10-55VDC Class 2 Compliant
Output Current	0.700A (@10VDC) - 0.127A (@55VDC)
Output Power	7 Watts (constant)
Max. AC Driver Output Current	1.4Adc
Max. AC Driver Neutral Current	1A
Surge Protection	Meets ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Operating Temp	0° to 55° C
EMI	Complies to FCC Commercial Limits
Battery	Lithium Ion 24 Hour Recharge 5-7 Year Life Expectancy
Weight	0.7 lbs.
Approval	UL Listed for factory and field installation CSA C22.2 No 141 CA T20 Appliance Efficiency Database

¹Max. output voltage in emergency mode is 55 VDC with a + tolerance of 5 volts



DIMENSIONS

5.12" x 2.79" x 1.09" (BPS model)
4.35" x 2.79" x 1.09" (BP model)



PRODUCT ADVANTAGES

- Constant Power Performance**
Constant wattage delivery maintains illumination for the full emergency runtime with no degradation.
- Minimum Mounting Footprint**
Compact enclosure significantly decreases space requirements for fixtures designs with limited 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. Can be enabled or disabled as desired.
- 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 FTBR
- Auto-Sense 10-55VDC output is UL 1310 Certified, Output Class 2 Compliant
- AC Activate** circuitry simplifies wiring by eliminating the need for manual battery connection during installation
- White painted steel case
- Includes single-piece stainless steel 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 for CA Title 20
- Suitable for use in Damp Location and Enclosed and Gasketed luminaires.
- RoHS Compliant



ILBLP CP07 HE SD

Constant Power Emergency LED Driver

ORDERING GUIDE

ILBLP

CP07

HE

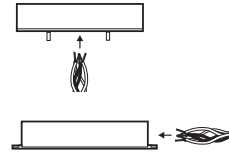
SD

Understanding Your IOTA Driver Model:

ILBLP = IOTA Emergency LED Driver with Lithium Battery Technology
CP** = Constant Output Performance at the rated wattage
HE = High efficiency charging control for CA Title 20 requirements
SD = Self-diagnostic capability

BP (Integral, non-flex enclosure with bottom-feed poke-in terminals)

BPS (Integral, non-flex enclosure with side-feed poke-in terminals)



ILBLP CP07 HE SD Sample Specification

Supply and install IOTA ILBLP CP07 HE SD 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 ion 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 UL listed 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 FTBR, Emergency Light-Emitting-Diode Drivers for field installation. Maximum input of the emergency driver shall be 32mA.

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 and short-circuit protected. A low voltage battery disconnect (LVD) circuit shall be provided and will disconnect the load and circuitry from the battery when it reaches approximately 87.5% 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 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 90 minutes. The output power to the LED load during emergency operation shall be held at 7 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 branch circuit is energized.

Emergency Lumen Performance - ILBLP CP07 HE SD

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	700	700	700
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The ILBLP CP07 HE SD is UL Listed and Classified for Field Installation.

DIAGNOSTIC CODES

The charge indicator (TBTS) LED will be **flashing 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 according to the diagnostic codes below:

STATUS INDICATION	CONDITION
STEADY GREEN	BATTERY IS FULLY CHARGED
FLASHING GREEN	BATTERY IS CHARGING
OFF	EMERGENCY MODE
ON/OFF RED FLASHES	CHARGE FAILURE
1 RED FLASH	BATTERY FAILURE
2 RED FLASHES	LOAD FAILURE

The self-diagnostic feature can be enable or disabled as desired. Refer to the product installation instructions for additional details.

Attention: Refer to the IATA website at <https://www.iata.org> for air transportation 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