PRODUCT SPECIFICATION SHEET

CONSTANT POWER HIGH EFFICIENCY LED EMERGENCY DRIVER



DESCRIPTION

The **ILB-CP20-HE-HV** from IOTA Engineering is a UL Listed and Classified LED emergency driver for field and factory installation that allows the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the **ILB-CP20-HE-HV** 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-CP20-HE-HV** will operate an LED array load at **20 watts** with **constant power** at a rated output voltage of **50V-200V**. The patented Constant Power design of the **ILB-CP20-HE-HV** maintains the output wattage to the LED array even as the system voltage diminishes, resulting in a constant illumination level for the entire emergency runtime. The **ILB-CP20-HE-HV** features high-efficiency performance and complies with CEC efficiency requirements.

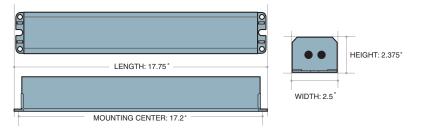
SPECIFICATIONS

Input Voltage	(Universal) 120-277VAC, 50/60Hz
Input Rating (120V/277V)	5.5 Watts (max)
Output Voltage	
Output Current	0.4A (@50VDC) - 0.1A (@200VDC)
Output Power	
Max. AC Driver Output Current	5Adc
Power Factor	≥ 0.85
EMI (Radiated and Conducted)	FCC Class A (charge and EM modes)
Surge Protection	
Emergency Operation	
Operating Temp	0° to 55° C
THD	< 10%
Battery	High Temp Nickel-Cadmium 24 Hour Recharge 7-10 Year Life Expectancy
Weight	(dual flex -A, -R) 6.0 lbs. (single flex -S) 5.7 lbs.
Approval	UL Listed for factory and field installation California Energy Commission (CEC)

¹Compatible with drivers in normal mode up to 235V max. Operates array in emergency mode at 20W from 50V up to 201V.

DIMENSIONS

17.75" x 2.5" x 2.375" (mounting center 17.2")



TYPE:	
PROJECT:	

COMMENTS:

MODEL NO:

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LED OPERATION: 20W LED Load @ 50-200 VDC nom.¹

OUTPUT:

20 Watts (Constant)

PRODUCT ADVANTAGES

- Optimized for higher voltage LED luminaires with 50-200VDC driver output
- High Efficiency Performance meets CEC efficiency standards (CEC-400-2014-009-CMF)
- Increased illumination output designed for elevated fixtures
- Listed for field installation
- Patented Constant Power Design maintains illumination throughout the 90-minute runtime with no light degradation
- Two-wire universal AC input
- Self-sensing output voltage operates various product types reducing product SKUs for emergency options.

FEATURES

- UL 924 Listed
- Three mounting configurations available
- Long-life, maintenance-free, high temperature recyclable Ni-Cad battery
- Galvanized steel case
- Single-piece TBTS test switch and charge indicator can be remote-mounted up to 50 ft.
- 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, and enclosed and gasketed fixtures
- RoHS Compliant



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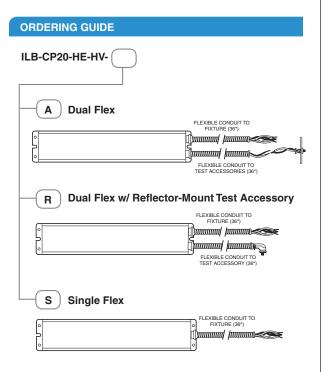
Patented. See www.iotaengineering.com/patents for details.

ISTED.

Product specifications are subject to change without notice

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ILB-CP20-HE-HV CONSTANT POWER LED EMERGENCY DRIVER



ILB-CP20-HE-HV SAMPLE SPECIFICATION

Supply and install IOTA [Insert 20W model number] Constant Power emergency LED driver system as indicated on the plans. The emergency driver shall be designed for 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 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 5.5 watts. The unit shall monitor and adjust the input power consumption for compliance with CEC efficiency standards for small battery chargers.

The charger shall be current limited, 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 <87% 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 50 to 200 VDC (235 VDC max. normal mode). 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 +/- 10%. 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 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.

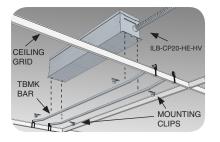
SPECIFICATION TOOLS FOR UL LISTED FIELD INSTALLATION



The **ILB-CP20-HE-HV** is UL Listed for Field and Factory Installation. Refer to the "**CP Series Compatibility and Suitability of Use Guidelines**" addendum for complete project installation requirements.

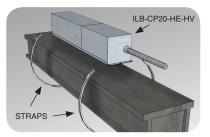
ACCESSORIES

O 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 bars of the TBMK via mounting clips. The bars then mount to the T-bars of the ceiling grid. The flexible conduit of the ILB-CP connects to the fixture.

O Strapping Kit



The strapping kit provides (2) straps that run through the mounting tabs of the ILB-CP for securing to a beam or column near the fixture. Overall strap length is 18".

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

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