

ILBHI HV Emergency LED Drivers

HIGH VOLTAGE IN 347-480VAC  HIGH VOLTAGE OUT 55-250VDC



IOTA® ILBHI HV Emergency Drivers bring the benefits of IOTA emergency capability to high-voltage, non-Class 2 luminaire applications. Known for superior emergency performance, durable design, and confident reliability, IOTA emergency drivers are now available for installation in **347VAC to 480VAC** applications with **55-250VDC** LED designs.



347VAC to 480VAC Input

The ILBHI Series accepts **347VAC to 480VAC electrical input**, meeting Canada voltage standards and other high-voltage requirements.

Eliminates additional equipment and installation costs incurred from using step-down transformers with non-high-voltage emergency equipment.



55VDC to 250 VDC Auto-Sense Forward Voltage

IOTA "HV" products deliver an increased forward voltage between 55 to 250VDC for non-Class 2 luminaires. The IOTA "HV" emergency driver automatically detects the required forward voltage needed to operate the LED array.

The wide auto-sense forward voltage range makes IOTA emergency drivers a single SKU solution for varying LED voltage requirements.



Constant Power Emergency Illumination

IOTA's patented Constant Power output delivers the rated output wattage to the luminaire for the entire runtime.

20W and 30W ILBHI HV models deliver the consistent emergency levels needed for raised and high-bay fixture applications.



Self Diagnostics

Automatically conducts 30-second monthly and 90-minute annual diagnostics and will communicate detected failures via the included flashing indicator.

Avoids the time and labor investment of manually testing emergency fixtures, particularly in high-ceiling installations.



Minimized Size and Weight

Advanced lithium technology delivers significant advantages in size and weight without compromising emergency performance.

Easier to install internally within channel spaces or externally to downlight fixture designs.



AC Activate

The innovative AC Activate enhancement eliminates the requirement and labor costs of manually connecting the emergency battery after installation.

"Plug and Play" enhancement reduces wiring steps and the need for manual battery connection after installation.



ILBHI CP20 HE SD HV Specifications

Input Voltage	347-480VAC, 50/60Hz
Input Current (347/480V)	0.015A (max)
Output Voltage	55-200Vdc (nom)
Output Current	0.1A (@200VDC) to 0.363A (@55VDC)
Output Power	20 Watts (constant)
Max. AC Driver Neutral Current	1.5 Amps
Power Factor (@347V)	≥ 0.9*
Surge Protection	Meets or Exceeds ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Operating Temp.	0° to 55° C
Battery	Maintenance-free LiFePO ₄ Lithium Iron Phosphate (no heavy metals) 24 Hour Recharge 5-7 Year Life Expectancy
Weight	(integral) 4.6 lbs (single flex) 4.85 lbs (dual flex) 5.0 lbs
Certifications	UL Listed for Factory and Field Installation in U.S. and Canada CSA C22.2 No. 141 CA Title 20 Appliance Efficiency Database

*PF is ≥0.8 for 480Vac



ILBHI CP30 HE SD HV Specifications

Input Voltage	347-480VAC, 50/60Hz
Input Current (347V/480V)	0.022A (max)
Output Voltage	55-250Vdc (nom)
Output Current	0.12A (@250VDC) to 0.545A (@55VDC)
Output Power	30 Watts (constant)
Max. AC Driver Neutral Current	1.5 Amps
Power Factor (@347V)	≥ 0.96**
Surge Protection	Meets or Exceeds ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Operating Temp.	0° to 55° C
Battery	Maintenance-free LiFePO ₄ Lithium Iron Phosphate (no heavy metals) 24 Hour Recharge 5-7 Year Life Expectancy
Weight	(integral) 4.85 lbs (single flex) 5.0 lbs (dual flex) 5.15 lbs
Certifications	UL Listed for Factory and Field Installation in U.S. and Canada CSA C22.2 No. 141 CA Title 20 Appliance Efficiency Database

**PF is ≥0.9 for 480Vac



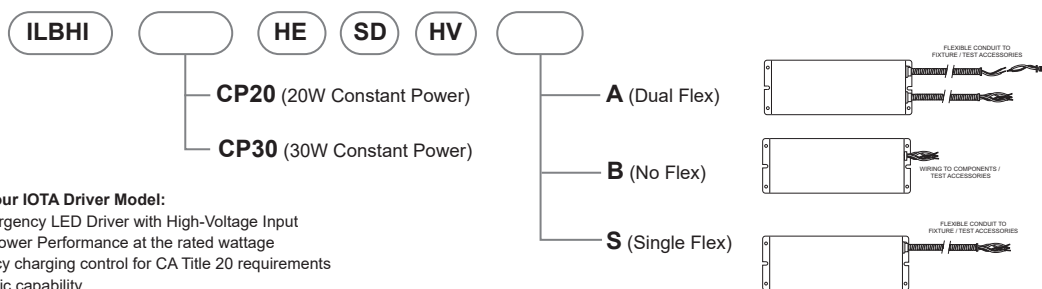
Emergency Lumen Performance - ILBHI CP20 HE SD HV

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	2000	2000	2000
110 lm/W	2200	2200	2200
120 lm/W	2400	2400	2400
130 lm/W	2600	2600	2600
140 lm/W	2800	2800	2800
150 lm/W	3000	3000	3000

Emergency Lumen Performance - ILBHI CP30 HE SD HV

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	3000	3000	3000
110 lm/W	3300	3300	3300
120 lm/W	3600	3600	3600
130 lm/W	3900	3900	3900
140 lm/W	4200	4200	4200
150 lm/W	4500	4500	4500

Models



Understanding Your IOTA Driver Model:

ILBHI = IOTA Emergency LED Driver with High-Voltage Input
 CP** = Constant Power Performance at the rated wattage
 HE = High efficiency charging control for CA Title 20 requirements
 SD = Self-diagnostic capability
 HV = High voltage output for non-class 2 LED loads

Dimensions

10.29" x 4.45" x 2.04" (mm: 261 x 113 x 52)

