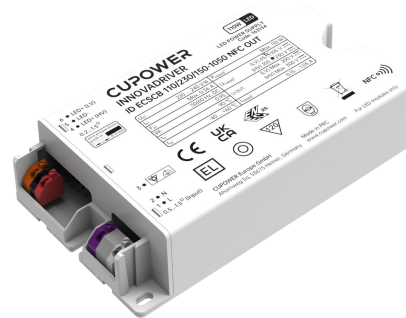


Product features

- Built-in isolated adjustable power LED driver
- For Zhaga Book18 Luminaires
- Current adjustment via NFC
- Flicker free LED driver
- Output current 150...1050 mA
- Max. output power 110 W
- Constant lumen output (CLO)
- Current output default value 150 mA
- For luminaires with protection class I, II
- 5 years warranty



Product specifications

163134 ID ECSCB 110/230/150-1050 NFC OUT

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L X W X H (mm)
150...1050 mA	220...240 Vac 220...240 Vdc	LV 65...105 Vdc	92% (@ 105V 1050 mA)	± 5%	> 0.95 @ full load	150.0 x 85.0 x 37.5
		HV 105...230 Vdc	93% (@ 185V 595 mA)			

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac;performance range
Max. input voltage range	198...264 Vac;operational safety range
Rated frequency range	0/50/60 Hz
Max. input current	0.56 A @ 230Vac

Battery operation

DC voltage range	220...240 Vdc;performance range
Max. DC voltage range	176...276 Vdc;operational safety range

Protection against voltage peaks

Withstand voltage	I/p-O/p: 3 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 6 kV, L-FG 10 kV, N-FG 10 kV

Total harmonic distortion (THD)

At rated input voltage range @ full load	< 10%
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Output data

Output current tolerance	± 5% at rated input voltage range
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No load output voltage	200 Vdc (LV) , 300 Vdc (HV)
Ripple output current	3% (ripple = peak/average total 100 Hz)
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 115 Vdc (LV) , 240 Vdc (HV)
Overpower protection	The output power is less than or equal to 126 W
Short circuit protection	Short circuit protection is designed to turn off the output and cannot be automatically restored. After removing the short circuit, the output can be restored by the following operation: Restart the driver: Power on the driver five seconds after the power failure.
No load output voltage	Open circuit protection is designed to turn off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by the following operation: Restart the driver: Power on the driver five seconds after the power failure.

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm ² ; Output wire: 0.2...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	NFC control adjusts the current: 150...1050 mA
Default current	150 mA
Output voltage range	LV 65...105 Vdc HV 105...230 Vdc
Noise level	< 24 dBA, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 71 A			Inrush current T _{width} : 187 us	
	MCB type	B10	C10	B16	C16
	Units	7	13	12	21

Supplementary instructions

- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
- The luminaire manufacturer must ensure that condensation water cannot be created within the fixture.

Environmental specifications

Operating temperature	-40...+60°C
Storage temperature	-40...+85°C
Working humidity	5%...85%
Store humidity	5%...95%
Lifetime	HV at Tc 90°C: 50,000 hrs; HV at Tc 80°C: 100,000 hrs; LV at Tc 85°C: 50,000 hrs; LV at Tc 75°C: 100,000 hrs; @ 230 Vac
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE	CCC	SAA
EN 61347-1:2015/A1:2021		
EN 61347-2-13:2014/A1:2017		
EN 300 330 V2.1.1:2017		
EN 62479:2010		
EN 50663:2017		
EN 301 489-1 V2.2.3:2019		
EN 301 489-3 V2.3.2:2023		
EN IEC 55015:2019/A11:2020		
EN IEC 61547:2023		
EN IEC 61000-3-2:2019/A2:2024		
EN IEC 61000-3-3:2013/A2:2021		
EN IEC 62384:2020		

Dimensions

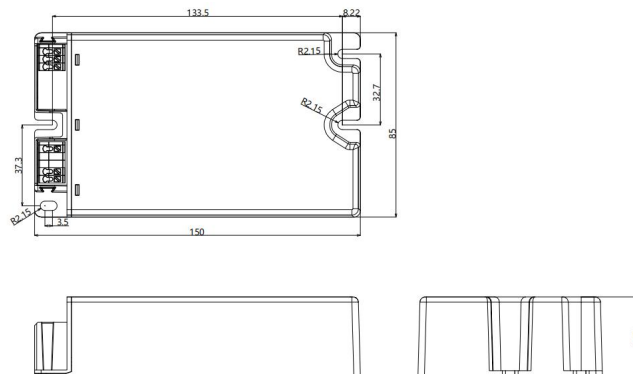
Housing dimensions

Length (L)	150.0 mm
Width (W)	85.0 mm
Height (H)	37.5 mm

For all dimensions: values in mm; tolerances: ± 0.5 mm

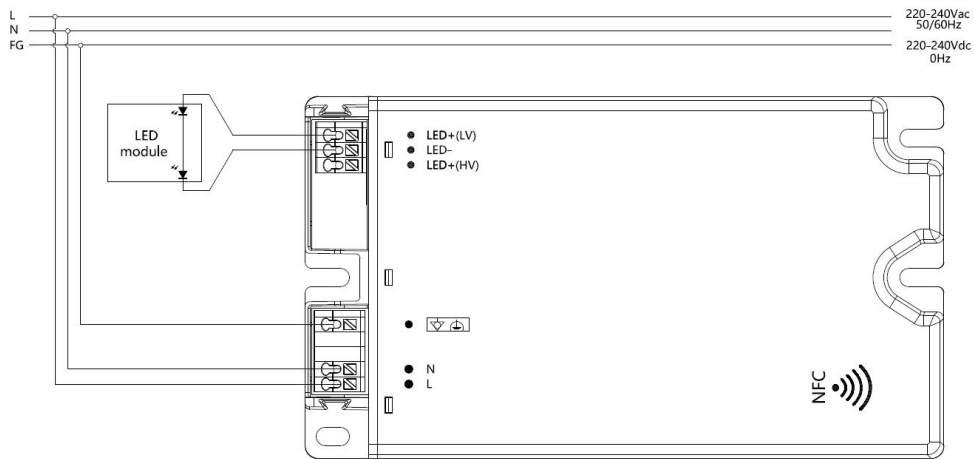
Packaging details

Packing units	12 pcs
Carton size	L237 X W160 X H194 mm
Carton weight	7.92 kg
Product Weight	0.66 kg

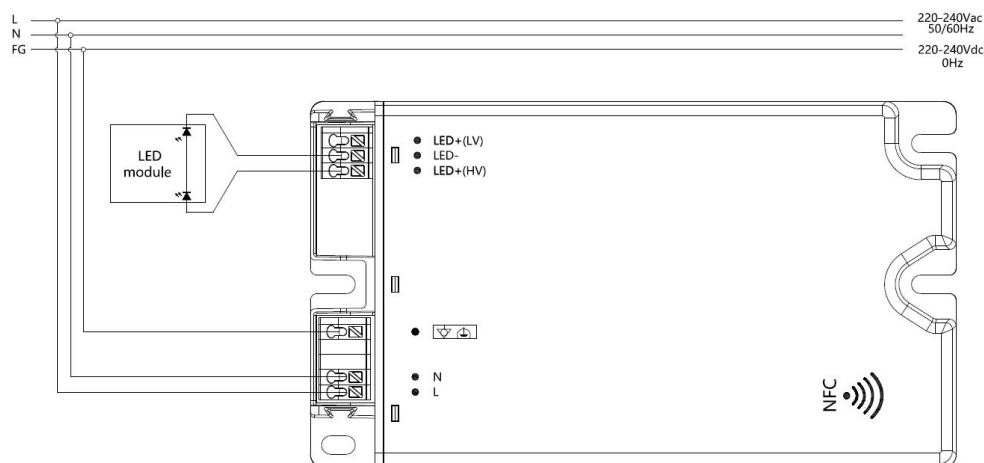


Wiring diagram

Low Voltage output (LV)

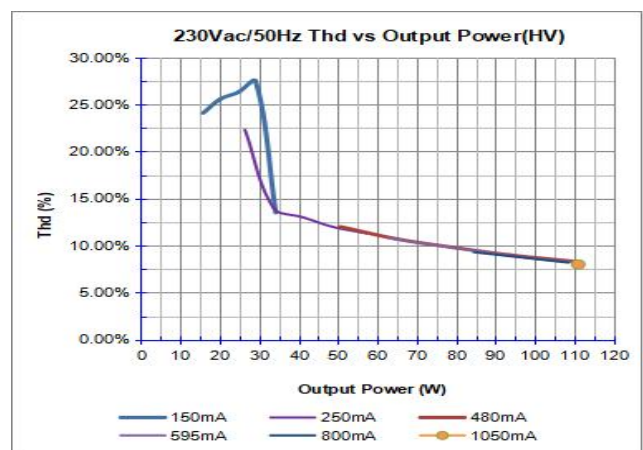
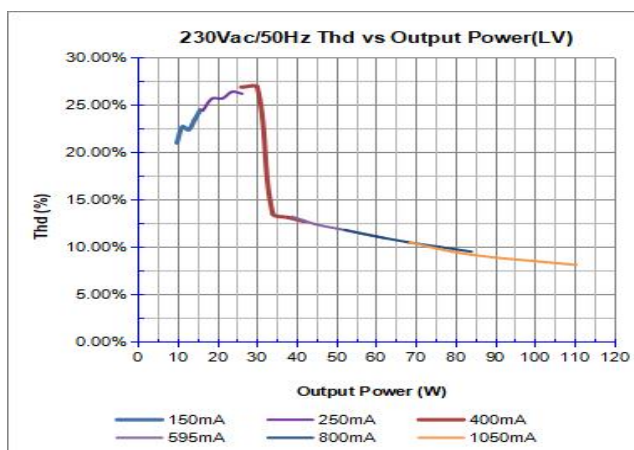
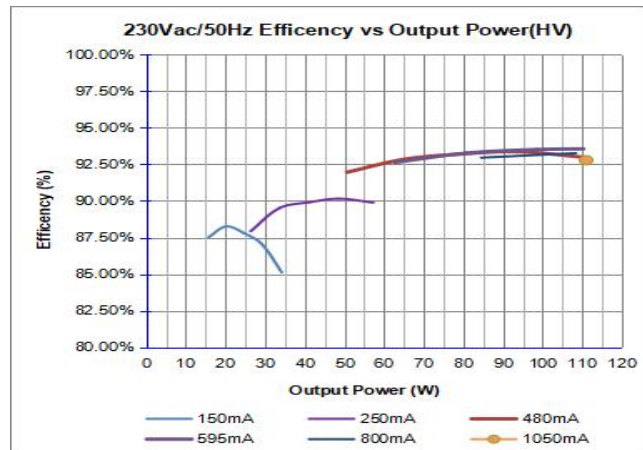
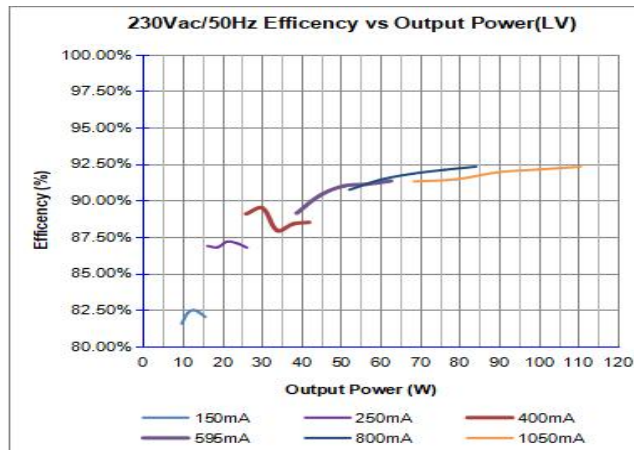
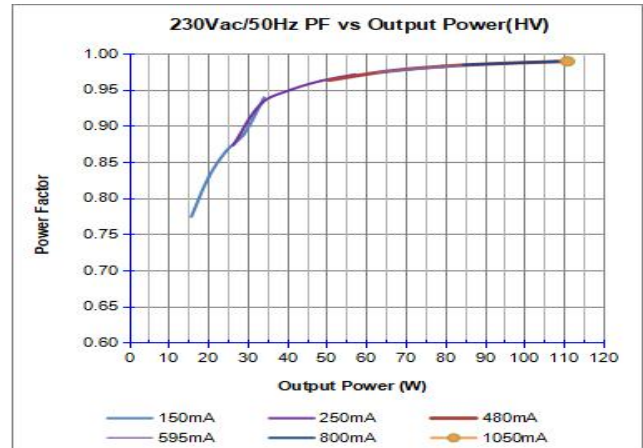
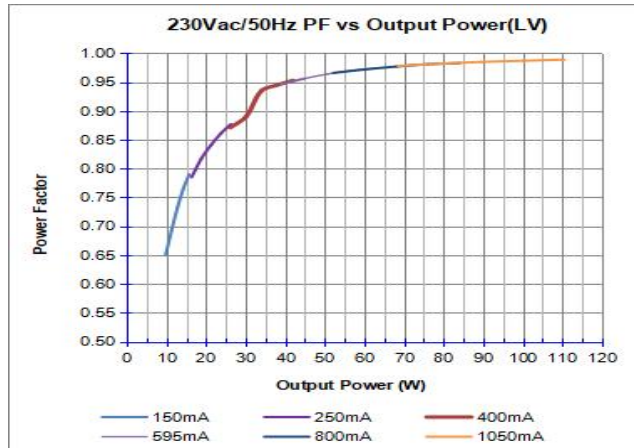


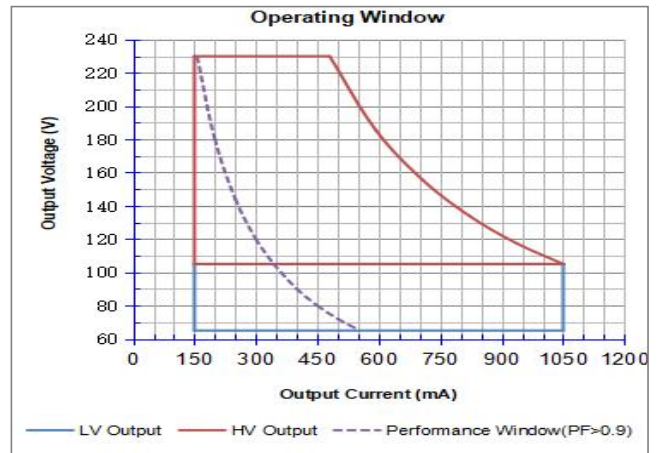
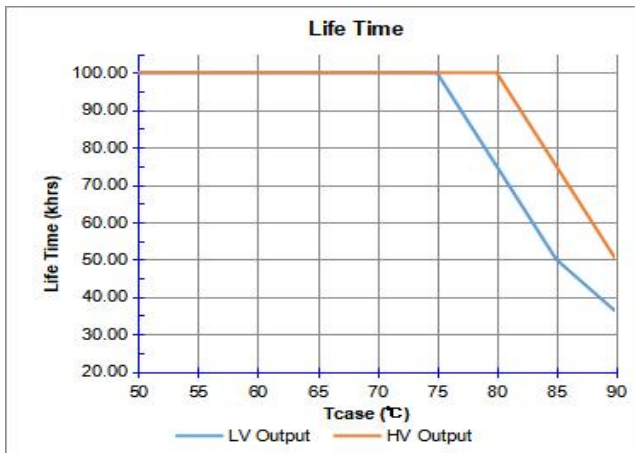
High Voltage output (HV)



- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- LV and HV outputs are selective and cannot be connected to both LV and HV at the same time. Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.

Technical information





It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 110 W + 5%.

Make sure that the LED driver is operated within the given window under all operating conditions.

Coming below the specified minimum output voltage of the LED driver may cause the device to shut-down.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
230	480 mA	110
185	595 mA	110
140	785 mA	110
105	1050 mA	110