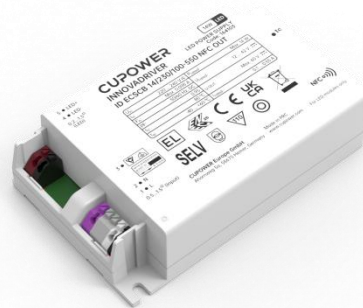


Product features

- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Flicker free LED driver
- Output current 100...550 mA
- Max. output power 14 W
- Constant lumen output (CLO)
- Current output default value 100 mA
- For luminaires with protection class I, II
- 5 years warranty



Product specifications

164103 ID ECSCB 14/230/100-550 NFC OUT

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
100...550 mA	220...240 Vac 220...240 Vdc	12...42 Vdc	87% (@ 42V 333 mA)	± 5%	> 0.95 @ full load	122.8 x 76.3 x 31.0

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	0.098 A @ 230 Vac

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
No load output voltage	≤ 60 Vdc
Ripple output current	5% (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
DC emergency level	Current output decreased to 15% (programmable range: 1%...100%)

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 48 V
Overpower protection	The output power is less than or equal to 17 W
Short circuit protection	Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm²; Output wire: 0.2...1.5 mm²
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: 100...550 mA
Default current	100 mA
Output voltage range	12...42 Vdc
Noise level	< 24 dBA, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 22 A			Inrush current Twidth: 267 us	
	MCB type	B10	C10	B16	C16
	Units	17	29	28	47

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	at Tc 80°C: 50,000 hrs; at Tc 70°C: 100,000 hrs @ 230 Vac
Maximum Tc temperature	80°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

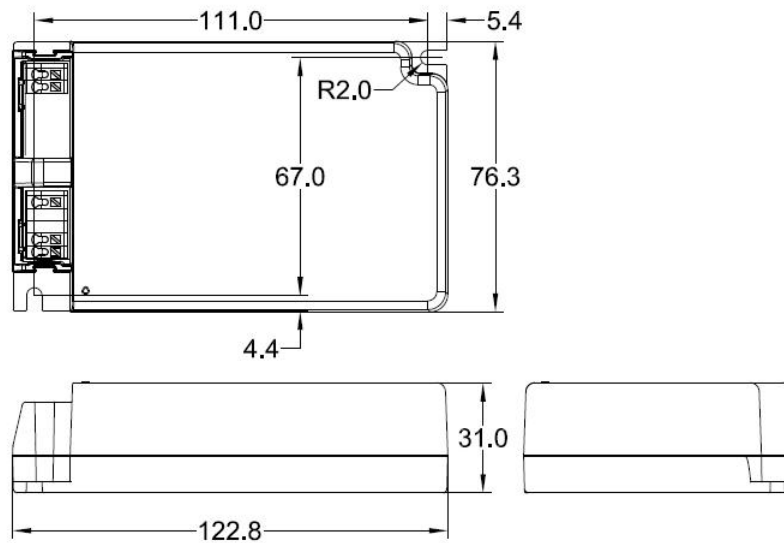
Housing dimensions

Length (L)	122.8 mm
Width (W)	76.3 mm
Height (H)	31.0 mm

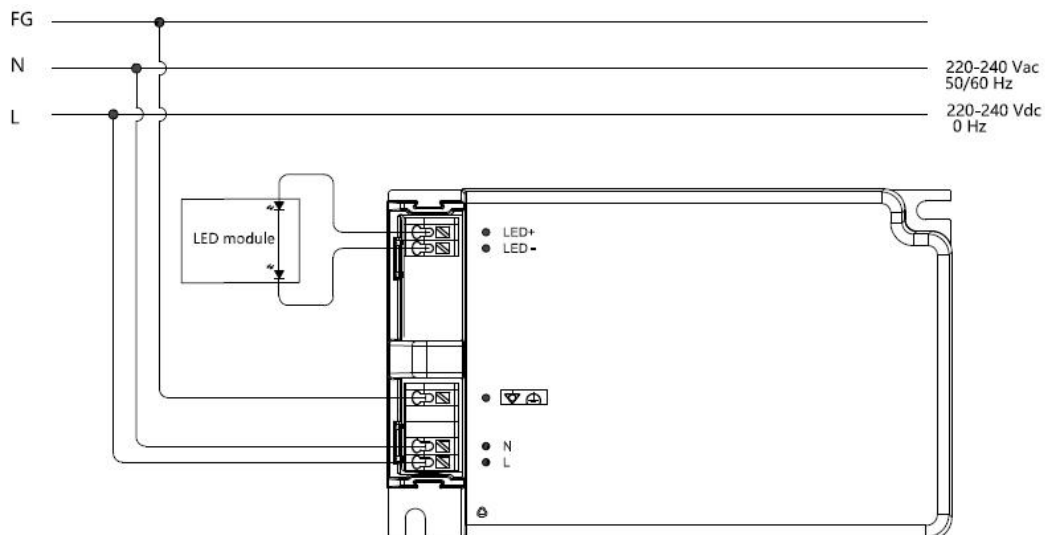
For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details

Packing units	24 pcs
Carton size	L318 X W256 X H120 mm
Carton weight	4.3 kg
Product weight	0.155 kg

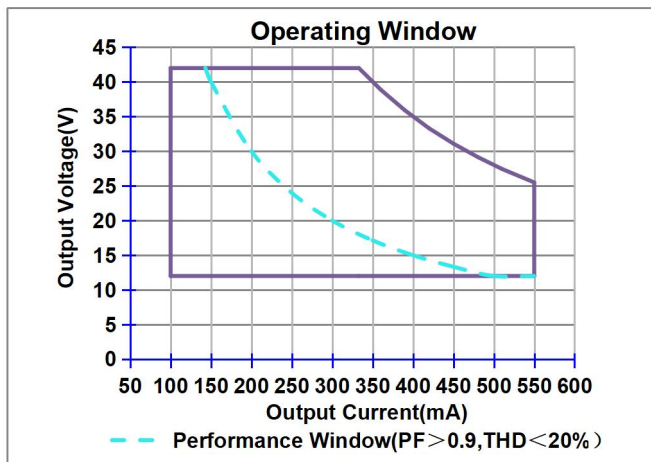
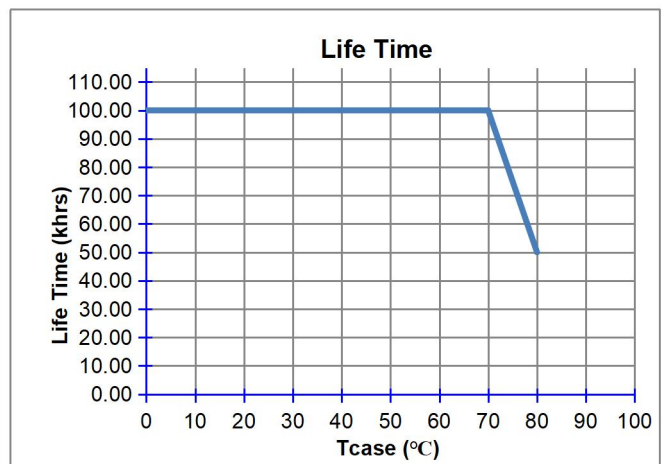
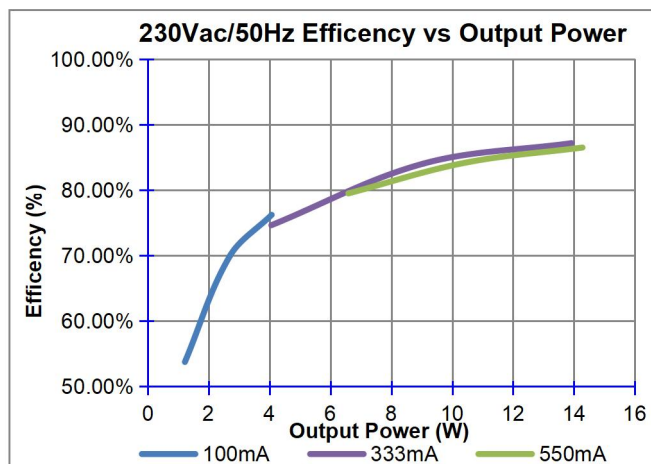
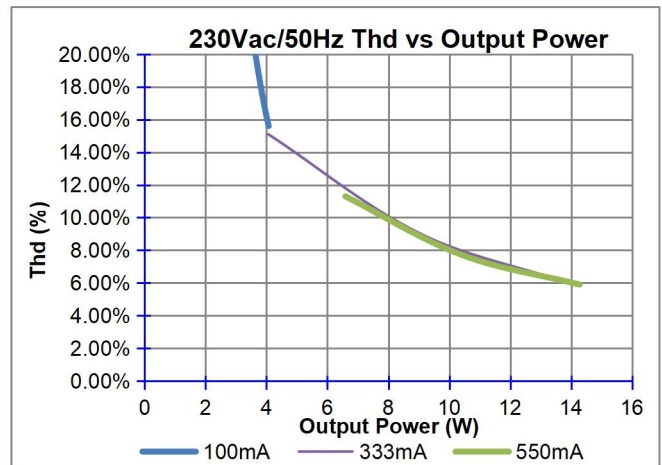
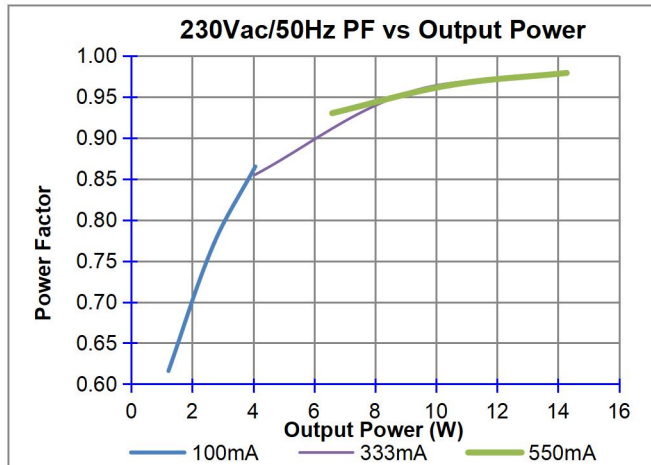


Wiring diagram



- 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.
- 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 14 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
42	100 mA	4.2
42	333 mA	14
35	400 mA	14
25.5	550 mA	14