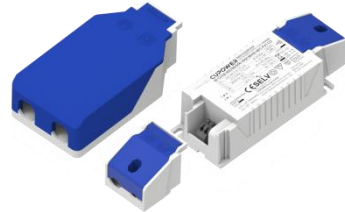


Product features

- Bluetooth dimming adjustable power LED driver
- Flicker-free LED driver
- Current adjustment via NFC
- Output current 300...1050 mA
- Max. output power 40 W
- Constant lumen output (CLO)
- For luminaires with protection class I, II
- 5 years warranty



Product specifications

161928 ID CCCB 40/230/300-1050 BH30 NFC FV1 CO

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
300 mA	220...240 Vac 220...240 Vdc	6...52 Vdc	87.5%	± 5%	0.9	97 x 43 x 30
500 mA		6...52 Vdc	88%			
750 mA		6...52 Vdc	89%			
1050 mA		6...38 Vdc	88.5%			

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
Performance / Operational safety	47...63 Hz
Max. input current	0.3 A @ 230 Vac & 0.3 A @ 230 Vdc

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	l/p-O/p: 3.75 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV per IEC 61000-4-5

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	≤ 59 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

Protection functions output side

Overvoltage protection	The output voltage is less than or equal to 59 V
Overpower protection	The output power is less than or equal to 44 W
Short circuit protection	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed

Dimming operation and interface

Standby power consumption	< 0.5 W
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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: 300...1050 mA
Default current	300 mA
Output voltage range	6...52 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 5.24 A		Inrush current T _{width} : 48 μs		
	MCB type	B10	C10	B16	C16
	Units	40	40	65	65

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

Installation instruction

- Install the LED driver in the direct neighborhood of other Cosmicnode products.
- The LED driver contains an antenna for wireless communication with other Cosmicnode products. Operation of the antenna should not be disrupted.
- Do not mount the LED driver inside a metal housing or directly next to a large metal object.
- Some glass and plastic materials influence the operation of an antenna.
- Contact Cosmicnode in case of doubt via: <https://www.cosmicnode.com/>

CUPOWER configuration

- COSMICNODE is a unique, fully wireless control system. For more information about COSMICNODE: <https://www.cosmicnode.com/>.
- The LED driver is Cosmicnode smart ready.
- When the LED driver is powered, the connected lamp goes on.
- The Cosmicnode software licence is delivered separately to the client and activated during commissioning of the Cosmicnode solution.
- The LED driver is compatible to work with Cosmicnode enabled equipment.
- The LED driver is configurable via the Cosmicnode app and management system.

Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-25...85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 90°C: 50,000 hrs; at Tc 80°C: 100,000 hrs @ 230 Vac (0.2% / 1,000 h failure rate)
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE

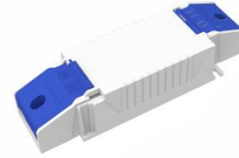
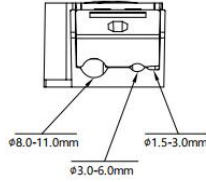
CCC

SAA

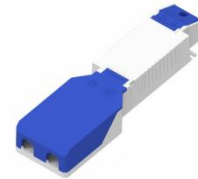
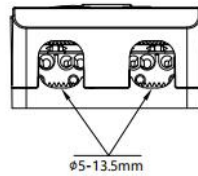
Accessories (optional)



Art. 160037 XZ-ID-A



Art. 160679 XZ-ID-LOOP-A



Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-A	38	34	30
XZ-ID-LOOP-A	113.4	57.2	30
Driver incl. 2 x XZ-ID-A	143	43	30
Driver incl. XZ-ID-A + XZ-ID-LOOP-A	218.6	57.2	30

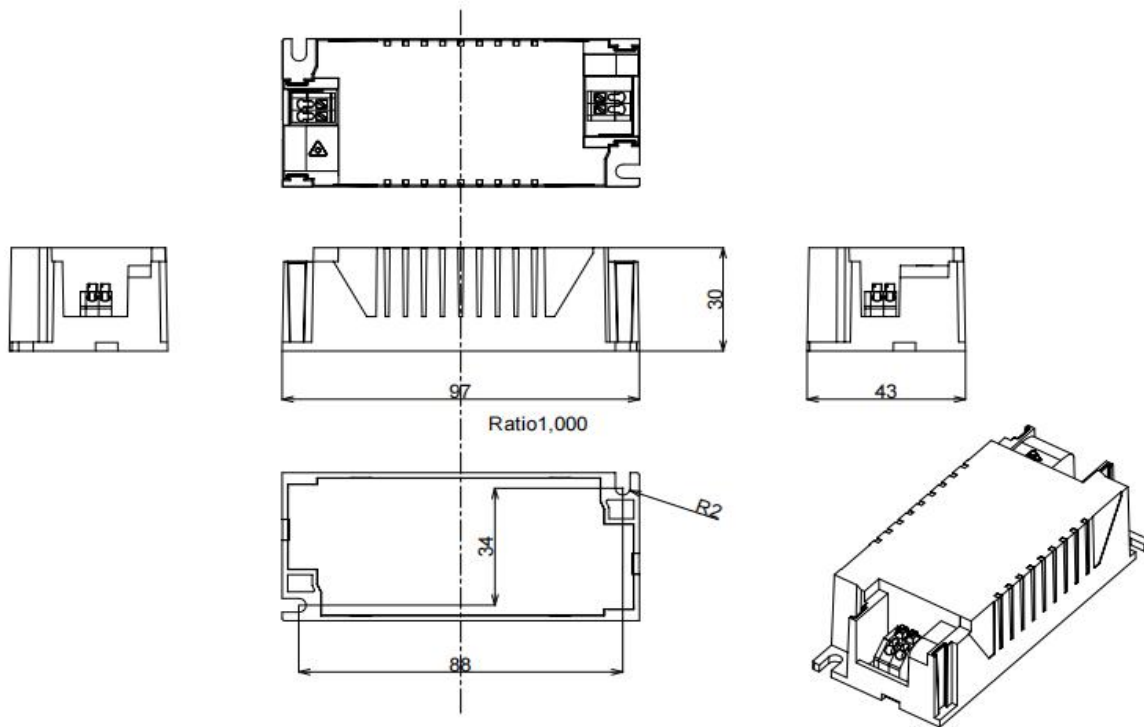
Dimensions

Housing dimensions

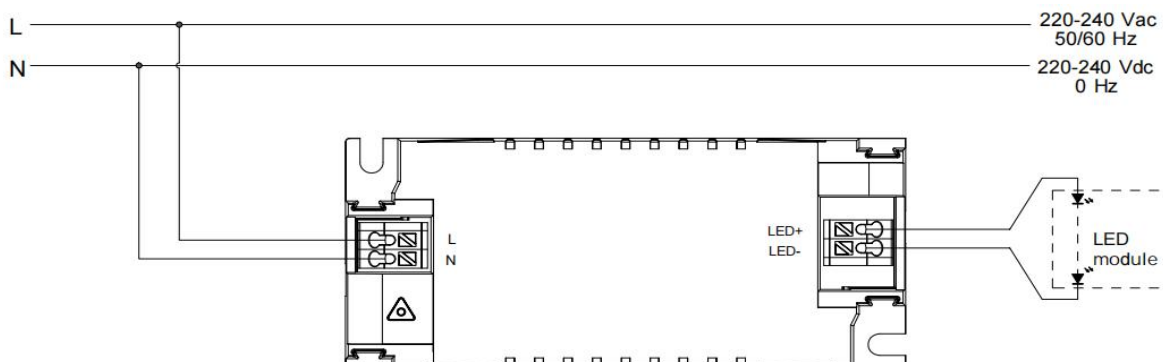
Length (L)	97 mm
Width (W)	43 mm
Height (H)	30 mm
Weight	0.116 kg

Packaging details

Packing units	24 pcs.
Carton size	212 x 137 x 139 mm
Weight	3.8 kg

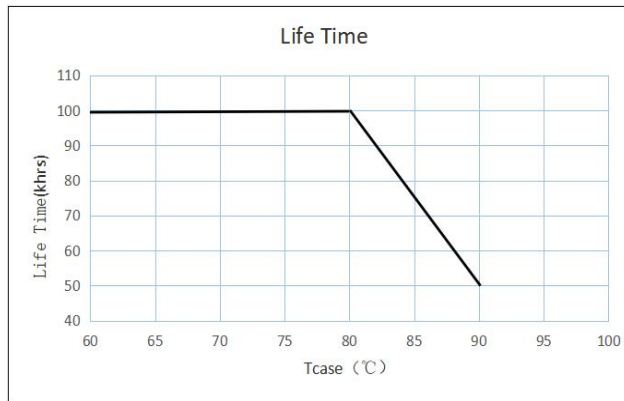
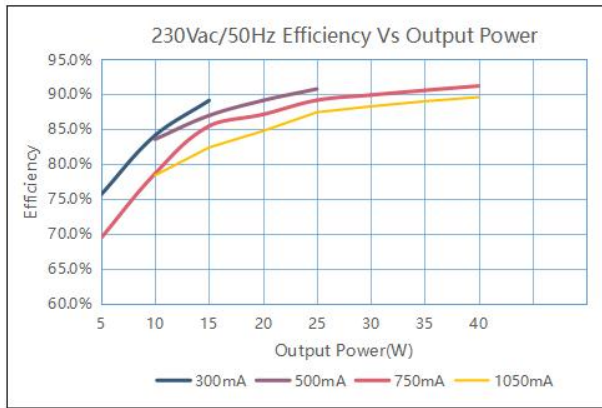
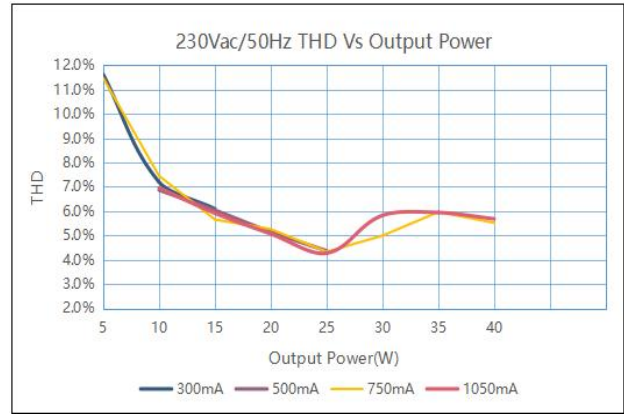


Wiring diagram

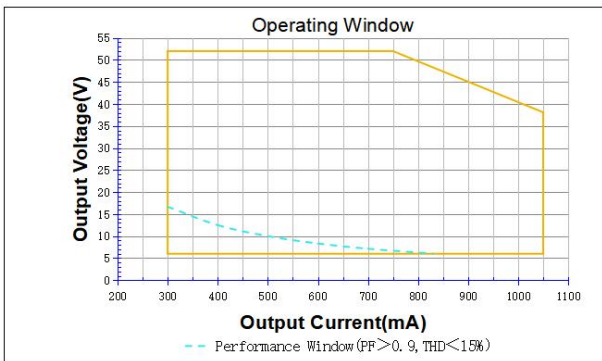


- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.

Technical information



(0.2% / 1,000 h failure rate)



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 40 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	300 mA	15.6
52	500 mA	26
52	750 mA	39
38.1	1050 mA	40