

## Product features

- Isolated adjustable power LED driver
- Constant lumen output(CLO)
- Current adjustment via NFC
- Output current 300...1050 mA
- Max. output power 42 W
- DC emergency
- Flicker-free, dimming range 1%...100% (amplitude dimming)
- Current output default value 100%
- For luminaires with protection class I, II
- Packing unit programming: configure a large number of drivers in



## Product specifications

166718 ID ECSCB 42/230/300-1050 BH21 NFC ML

Output current	Input voltage	Output voltage	Efficiency @full loadI	Current accuracy	Power factor	Dimension LxWxH (mm)
300...1050 mA	220...240 Vac 220...240 Vdc	15...52 Vdc	92% ( @ 52 V 810 mA)	± 5%	0.9 (Output Power >17.5 W @ 230 Vac 50 Hz)	97 x 43 x 21.4

## Electrical specifications

### Mains voltage supply

Rated input voltage range	220...240 Vac
Max. input voltage range	198...264 Vac
Rated frequency range	0/50/60 Hz
Max. input current	0.24 A @ 230 Vac & 0.24 A @ 230 Vdc

### Battery operation

DC voltage range	220...240 Vdc
Max. DC voltage range	176...276 Vdc

### Protection against voltage peaks

Withstand voltage	I/p-O/p: 3 kVac, < 5 mA 60 sec, I/p-Da: 1.5 kVac, < 5 mA 60 sec, O/p-Da: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 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	Bluetooth mesh current output decreased to 15% (programmable)

**Protection functions output side**

Overvoltage protection	The output voltage is less than or equal to 60 V
Overpower protection	The output power is less than or equal to 48 W
Short circuit protection	Protection device will trigger when short circuit and will auto recover after the fault mode is removed.
No load output voltage	Protection device will trigger when No load and will auto recover after the fault mode is removed.

**Dimming operation and interface**

Standby power consumption	≤ 0.3 W
Dimming mode	AM dimming
Dimming method	Bluetooth mesh dimming
Dimming current range	1%...100%

**Connection terminals**

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm <sup>2</sup> @ Built-in, 0.75...1.5 mm <sup>2</sup> @ Independent Output wire: 0.2...1.5 mm <sup>2</sup>
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	15...52 Vdc

**Circuit breaker / Inrush current**

	Inrush current I <sub>peak</sub> : 15.6 A		Inrush current T <sub>width</sub> : 248 μs		
MCB loading quantity	MCB type	B10	C10	B16	C16
	Units	16	27	26	44

### 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.
- For the push DIM function, please follow our instructions, which can be downloaded from [www.cupower.com](http://www.cupower.com).
- The recommended NFC communication distance: 5...20 mm.

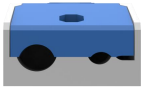
### Environmental specifications

Operating temperature	-20... +50°C
Storage temperature	-25... +85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs @ 230 Vac
Maximum Tc temperature	90°C

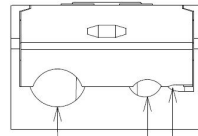
### Safety & EMC compliance

ENEC+CE	CCC	SAA

**Accessories (optional)**



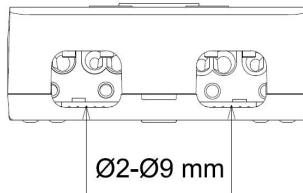
Art. 163379 XZ-ID-D



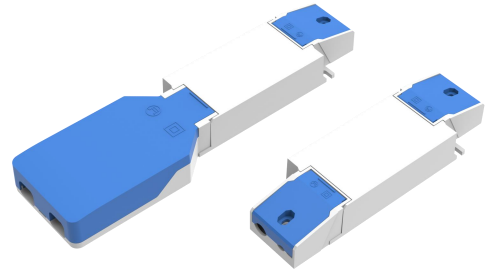
Ø2-Ø8 mm



Art. 163403 XZ-ID-LOOP-D



Ø2-Ø9 mm



Dimensions	Length (mm)	Width (mm)	Height (mm)
XZ-ID-D	38	33	21.4
XZ-ID-LOOP-D	101.6	56.5	21.4
Driver incl. 2 x XZ-ID-D	143.53	43	21.4
Driver incl. XZ-ID-D + XZ-ID-LOOP-D	207.23	56.5	21.4

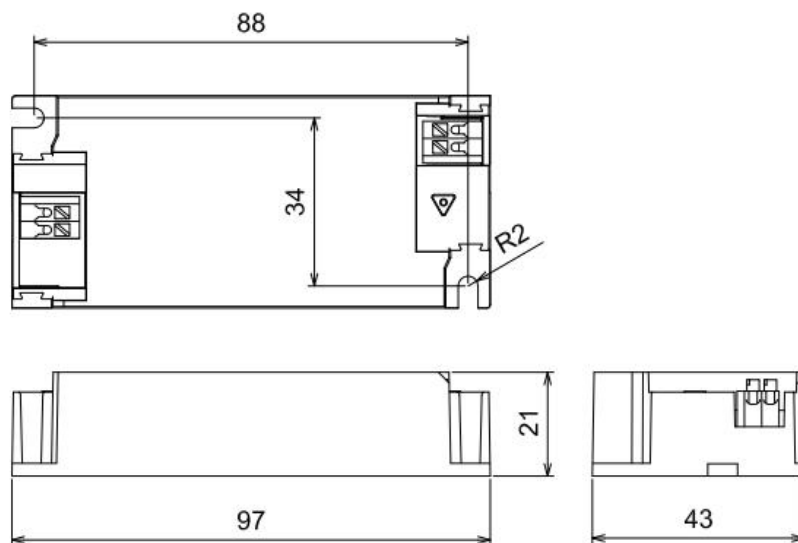
**Dimensions**

**Housing dimensions**

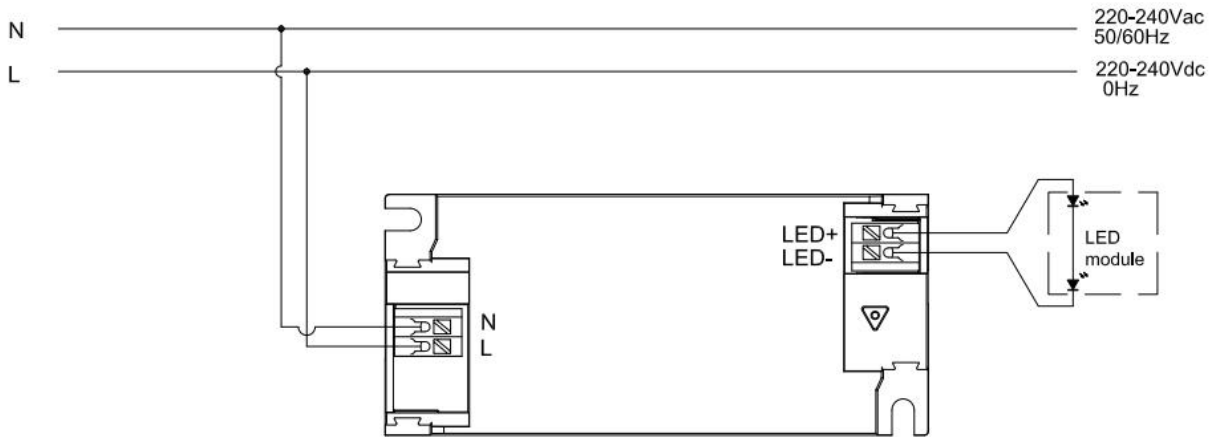
Length (L)	97 mm
Width (W)	43 mm
Height (H)	21.4 mm
Weight	0.1 kg

**Packaging details**

Packing units	24 pcs.
Carton size	204 x 139 x 116 mm
Weight	2.55 kg

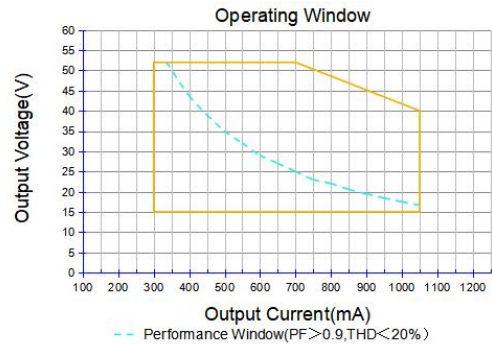
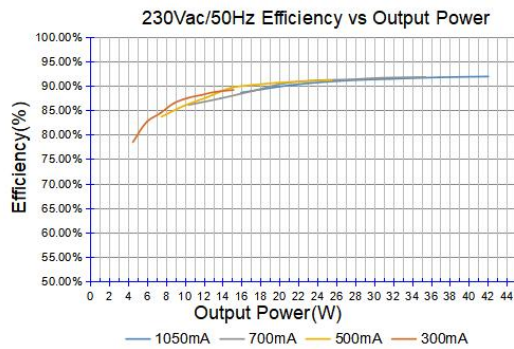
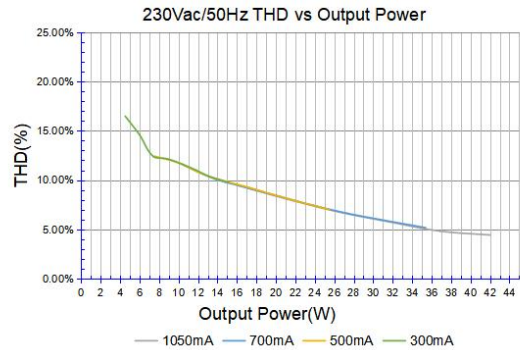
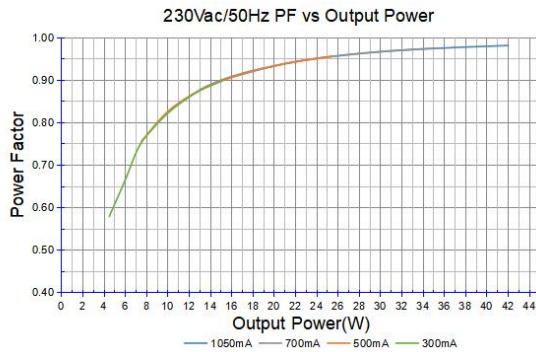


## Wiring diagram



- 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



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 42 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	800 mA	41.6
46	900 mA	41.4
42	1000 mA	42
40	1050 mA	42