

### Product features

- Isolated adjustable power LED driver
- Constant lumen output (CLO)
- Current adjustment via NFC
- Output current 150...700 mA
- Max. output power 28 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 28/230/150-700 BH21 NFC ML

Output current	Input voltage	Output voltage	Efficiency @full load	Current accuracy	Power factor	Dimension LxWxH (mm)
150...700 mA	220...240 Vac 220...240 Vdc	15...52 Vdc	90% (@ 52 V 540 mA)	± 5%	0.9 (Output Power >11 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	0.16 A @ 230 Vac & 0.16 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	DALI 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 34 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	Bluetooth mesh dimming
Dimming method	AM 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: 150...700 mA
Default current	150 mA
Output voltage range	15...52 Vdc

### Circuit breaker / Inrush current

MCB loading quantity	Inrush current I <sub>peak</sub> : 12.9 A			Inrush current T <sub>width</sub> : 236 μs	
	MCB type	B10	C10	B16	C16
	Units	21	35	33	56

### 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.



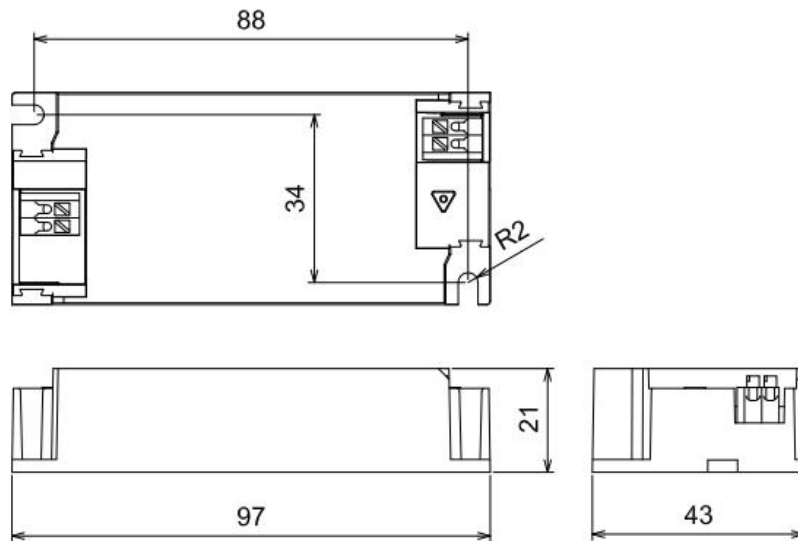
## Dimensions

### Housing dimensions

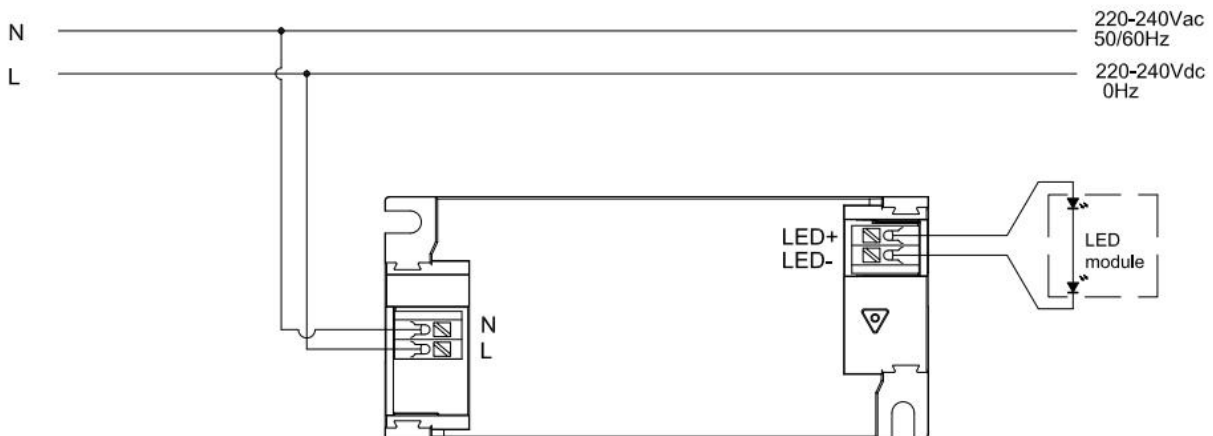
Length (L)	97 mm
Width (W)	43 mm
Height (H)	21.4 mm
Weight	0.093 kg

### Packaging details

Packing units	24 pcs.
Carton size	204 x 139 x 116 mm
Weight	2.4 kg

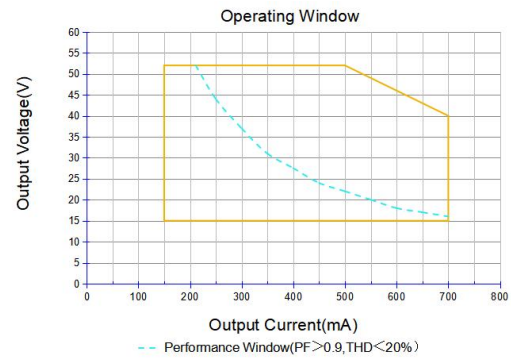
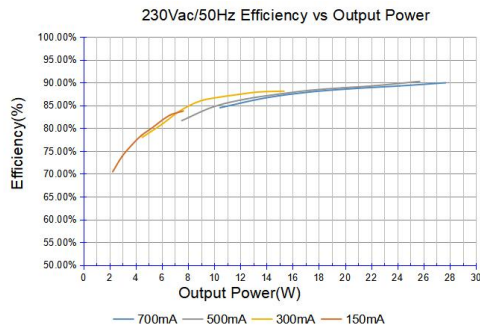
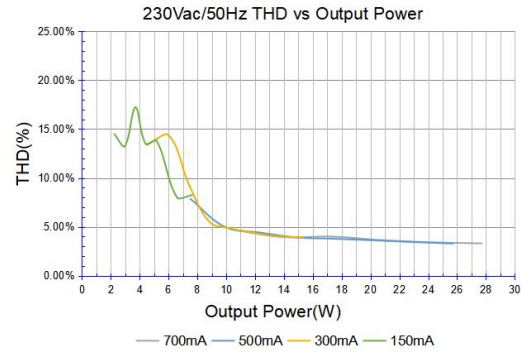
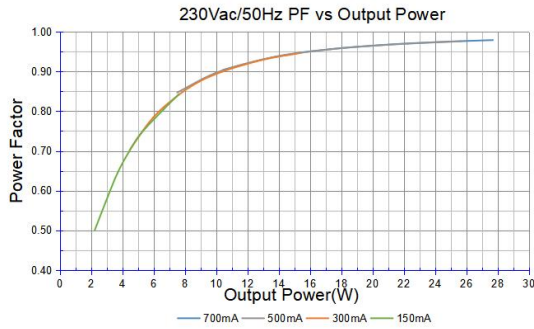


## Wiring diagram



- 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 28 W + 5%.

### Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
52	538 mA	27.9
48	583 mA	27.9
44	636 mA	27.9
40	700 mA	28