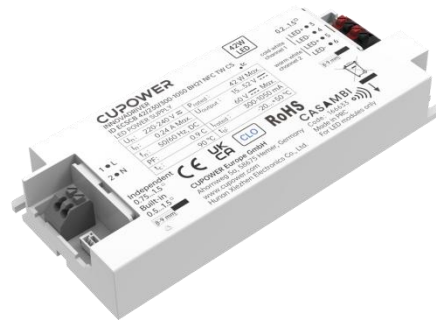
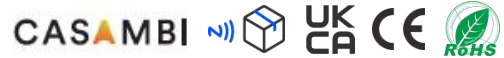


### Product features

- Isolated adjustable power color temperature LED driver
- Support wireless dimming and color temperature adjustable
- Supports NFC readers for precise setting and control of multiple functions
- Output current 300...1050 mA
- Max. output power 42 W
- DC emergency
- Flicker-free
- Current output default value 100%
- For luminaires with protection class I, II



### Product specifications

166633 ID ECSCB 42/230/300-1050 BH21 NFC CS

| Output current | Input voltage                  | Output voltage | Efficiency @ full load | Current accuracy | Power factor          | Dimension L x W x H (mm) |
|----------------|--------------------------------|----------------|------------------------|------------------|-----------------------|--------------------------|
| 300 ...1050 mA | 220...240 Vac<br>220...240 Vdc | 15...52 Vdc    | 89%                    | ± 5%             | 0.9<br>( @ 15...42 W) | 135 x 56.5 x 21          |

### 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<br>I/p-Da: 1.5 kVac, < 5 mA 60 sec<br>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 | 20% |
|------------------------------------------|-----|

### 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) |

### 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   |

### Dimming operation and interface

|                           |                             |
|---------------------------|-----------------------------|
| Standby power consumption | ≤ 0.45 W                    |
| Dimming mode              | Bluetooth dimming (Casambi) |
| Dimming method            | Amplitude dimming           |
| Dimming current range     | 1%...100%                   |

### Connection terminals

|                          |                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Connection terminal type | 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;<br>Output wire: 0.2...1.5 mm <sup>2</sup> |
| Wire stripping length    | 8...9 mm                                                                                                                              |

### Degree of protection

|                   |      |
|-------------------|------|
| Protection rating | IP20 |
|-------------------|------|

### Operating data

|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| Output current range (DT8) | NFC control adjusts the current: 300...1050 mA                                                  |
| Output current range (DT6) | NFC control adjusts the current: 300...750 mA per channel<br>Max sum of output current: 1050 mA |
| Default current            | 300 mA                                                                                          |
| Output voltage range       | 15...52 Vdc                                                                                     |

### Circuit breaker / Inrush current

|                      |                                           |     |     |                                           |     |
|----------------------|-------------------------------------------|-----|-----|-------------------------------------------|-----|
| MCB loading quantity | Inrush current I <sub>peak</sub> : 6.18 A |     |     | Inrush current T <sub>width</sub> : 45 µs |     |
|                      | MCB type                                  | B10 | C10 | B16                                       | C16 |
|                      | Units                                     | 38  | 38  | 61                                        | 61  |

### 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 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 80°C: 50,000 hrs @ 230 Vac |
| Maximum Tc temperature | 90°C                             |

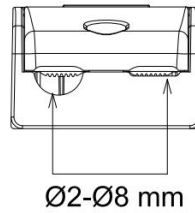
Safety & EMC compliance

| ENEC+CE | CCC | SAA |
|---------|-----|-----|
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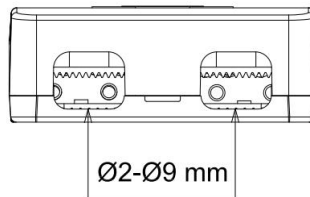
### Accessories (optional)



Art 161195 XZ-ID-C



Art 161201 XZ-ID-LOOP-C



| Dimensions                          | Length (mm) | Width (mm) | Height (mm) |
|-------------------------------------|-------------|------------|-------------|
| XZ-ID-C                             | 39          | 33         | 21          |
| XZ-ID-LOOP-C                        | 105         | 56.5       | 21          |
| Driver incl. 2 x XZ-ID-C            | 177         | 56.5       | 21          |
| Driver incl. XZ-ID-C + XZ-ID-LOOP-C | 242.8       | 56.5       | 21          |

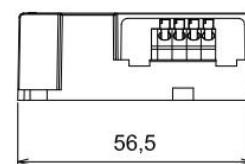
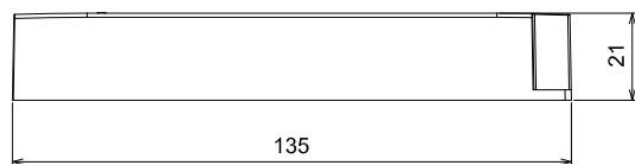
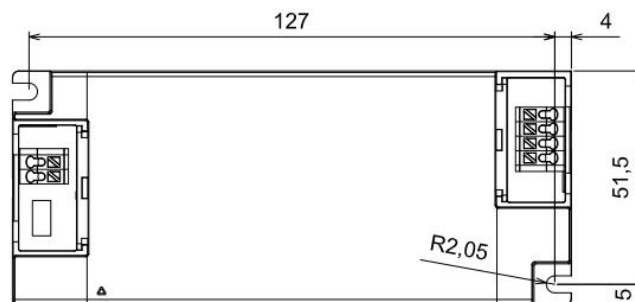
### Dimensions

#### Housing dimensions

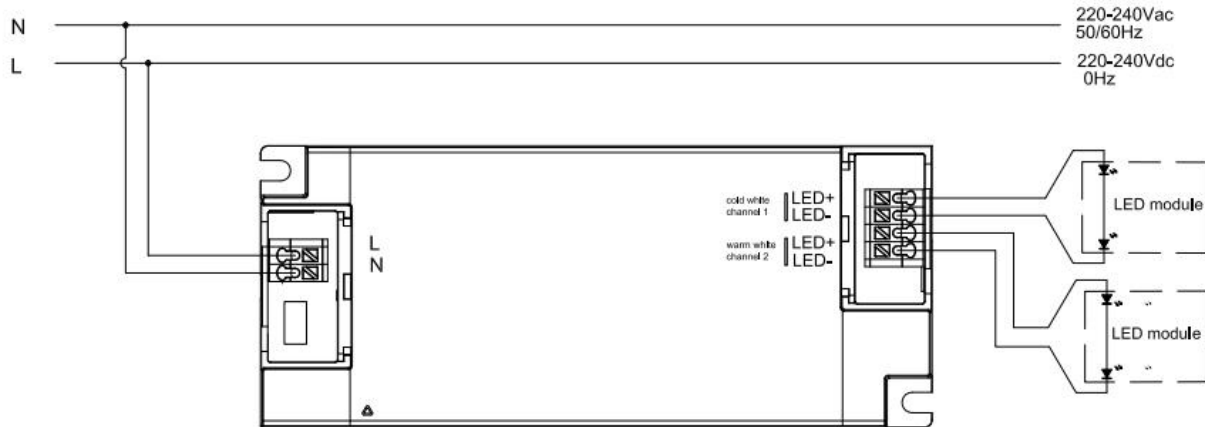
|            |         |
|------------|---------|
| Length (L) | 135 mm  |
| Width (W)  | 56.5 mm |
| Height (H) | 21 mm   |
| Weight     | 0.14 kg |

#### Packaging details

|               |                      |
|---------------|----------------------|
| Packing units | 24 pcs               |
| Carton size   | 280 x 179.5 x 114 mm |
| Weight        | 4 kg                 |

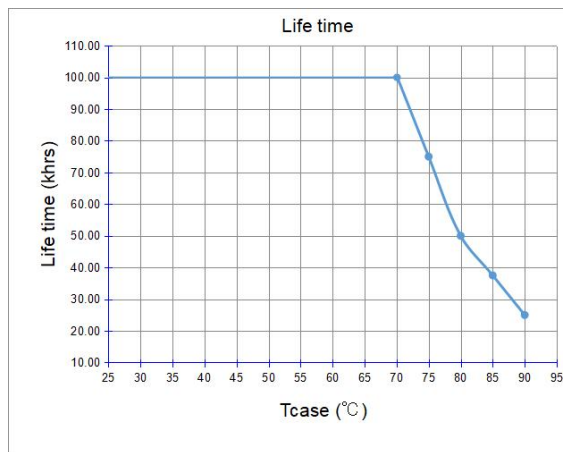
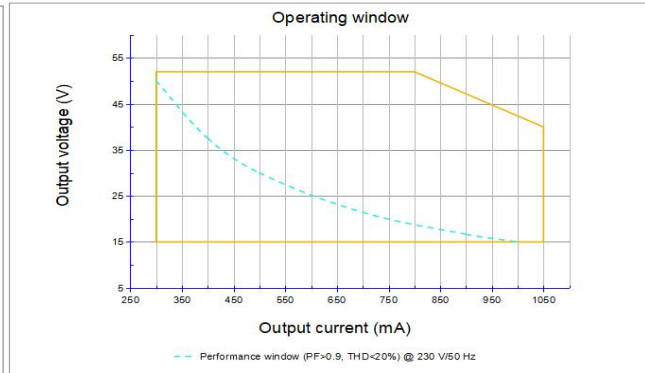
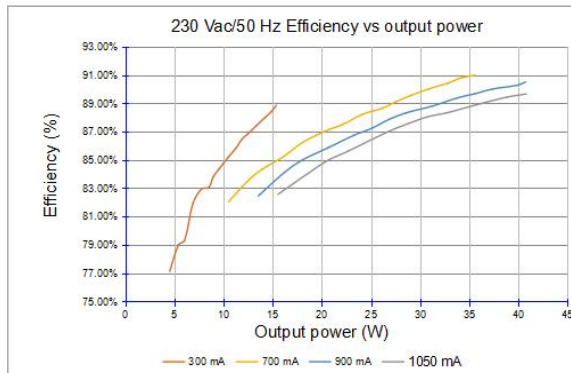
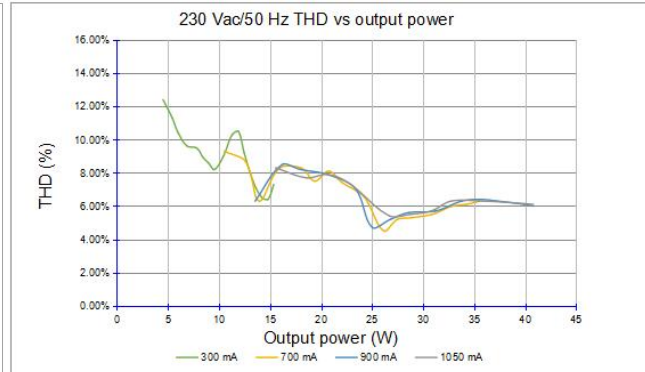
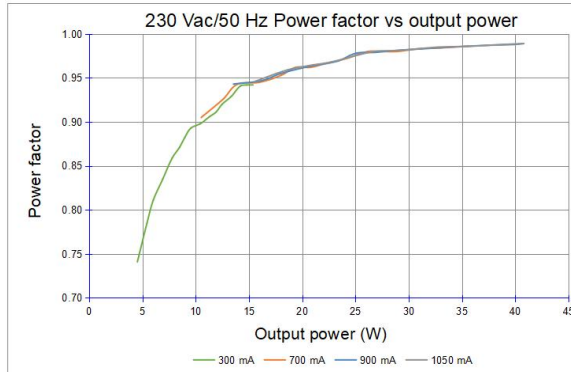


## Wiring diagram



- 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 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 42 W + 5%.

### Example of AOC settings

| V_LED (Vdc) | AOC_max | P_out (W) |
|-------------|---------|-----------|
| 52          | 807 mA  | 42        |
| 46          | 900 mA  | 42        |
| 42          | 1000 mA | 42        |
| 40          | 1050 mA | 42        |