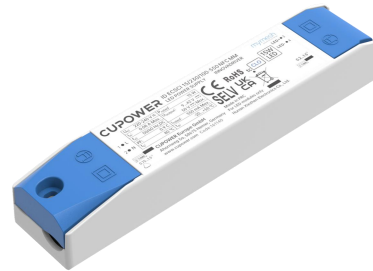


### Product features

- Isolated adjustable power LED driver
- Constant lumen output (CLO)
- Current adjustment via NFC
- Output current 100 ... 550 mA
- Max. output power 15 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 parallel via NFC
- Anti-glow



### Product specifications

#### 169269 ID ECSCI 15 230 100-550 NFC MM

| 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<br>220 ... 240 VDC | 9 ... 42 VDC   | 86 % (@ 42 V<br>350 mA) | ± 5 %            | 0.9<br>(Output Power<br>> 7 W @ 230<br>VAC 50 Hz) | 140.0 x 30.0 x<br>21.0   |

### 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                                |
| Performance / Operational safety | 47 ... 63 Hz                              |
| Max. input current               | 0.08 A @ 230 VAC & 0.08 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    | I/p-O/p: 3 kVAC, < 5 mA 60 s |
| Mains surge immunity | L-N 1 kV per IEC 61000-4-5   |

#### Total harmonic distortion (THD)

|                                          |      |
|------------------------------------------|------|
| At rated input voltage range @ full load | 15 % |
|------------------------------------------|------|

### Output data

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| Output current tolerance | $\pm 5\%$ at rated input voltage range                                            |
| No load output voltage   | $\leq 50$ VDC                                                                     |
| Ripple output current    | 5 % (ripple = peak/average total 100 Hz)                                          |
| Output PstLM             | $\leq 1$ at full load @ rated input voltage                                       |
| Output SVM               | $\leq 0.4$ at full load @ rated input voltage                                     |
| DC emergency level       | Bluetooth mesh current output decreased to 15 % (programmable range: 1 ... 100 %) |

### Protection functions output side

|                          |                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------|
| Overvoltage protection   | The output voltage is less than or equal to 50 V                                                         |
| Overpower protection     | The output power is less than or equal to 18 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 | $< 0.5$ W                  |
| Dimming mode              | Bluetooth mesh dimming     |
| Dimming method            | Amplitude dimming          |
| Dimming current range     | 1 ... 100 % (2 ... 550 mA) |

### Connection terminals

|                          |                                                                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Connection terminal type | Input terminal: 45°, Output terminal: 0°                                                                                            |
| Wire cross section       | Input wire: 0.75 ... 1.5 mm <sup>2</sup> stranded and solid-core ; Output wire: 0.2 ... 1.5 mm <sup>2</sup> stranded and solid-core |
| Wire stripping length    | 8 ... 9 mm                                                                                                                          |

### Degree of protection

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

### Operating data

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Output current range | NFC control adjusts the current: 100 ... 550 mA |
| Default current      | 100 mA                                          |
| Output voltage range | 9 ... 42 VDC                                    |

### Circuit breaker / Inrush current

|                      |                                          |     |     |                                            |     |
|----------------------|------------------------------------------|-----|-----|--------------------------------------------|-----|
| MCB loading quantity | Inrush current I <sub>peak</sub> : 9.5 A |     |     | Inrush current T <sub>width</sub> : 155 µs |     |
|                      | MCB type                                 | B10 | C10 | B16                                        | C16 |
|                      | Units                                    | 72  | 106 | 115                                        | 170 |

Environmental specifications

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Operating temperature  | -20 ... +50 °C                                                    |
| Storage temperature    | -25 ... +85 °C                                                    |
| Working humidity       | 10 ... 90 %                                                       |
| Storage humidity       | 5 ... 95 %                                                        |
| Lifetime               | at Tc 80 °C: 50,000 h @ 230 VAC<br>(0.2 % / 1,000 h failure rate) |
| Maximum Tc temperature | 80 °C                                                             |

Safety & EMC compliance

| ENEC+CE | CCC | SAA |
|---------|-----|-----|
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |
| /       | /   | /   |

### Dimensions

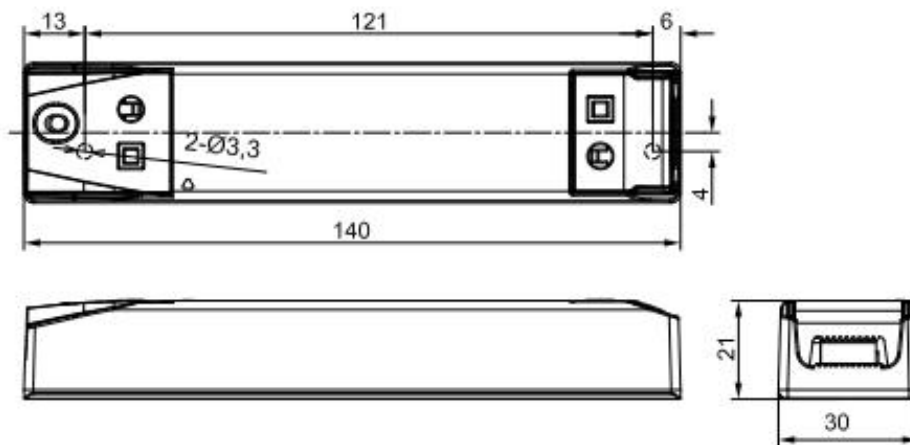
#### Housing dimensions

|            |          |
|------------|----------|
| Length (L) | 140.0 mm |
| Width (W)  | 30.0 mm  |
| Height (H) | 21.0 mm  |

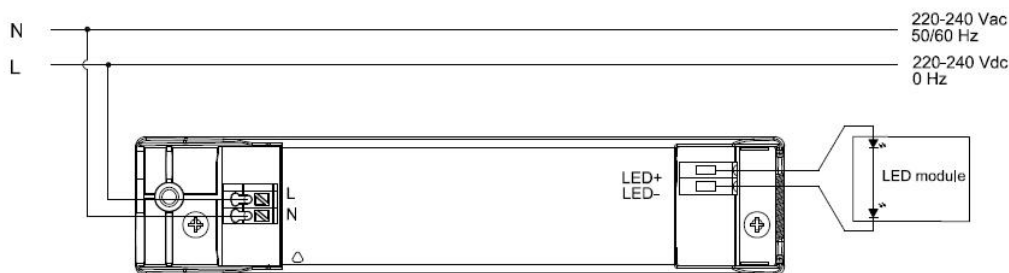
For all dimensions: values in mm; tolerances:  $\pm 0.5$  mm

#### Packaging details

|                |                    |
|----------------|--------------------|
| Packing units  | 24 pcs.            |
| Carton size    | 178 x 150 x 117 mm |
| Carton weight  | 1.85 kg            |
| Product Weight | 0.057 kg           |



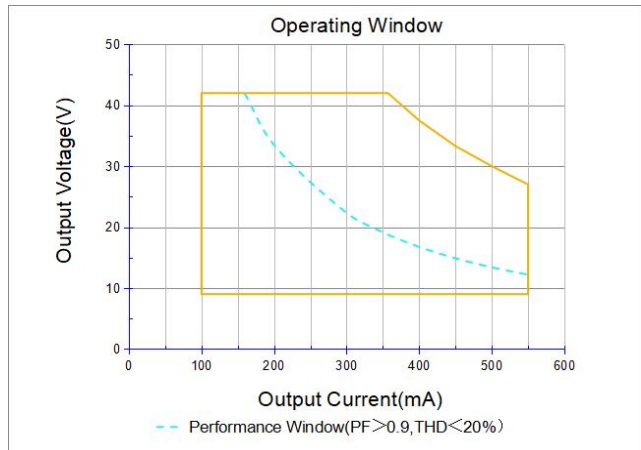
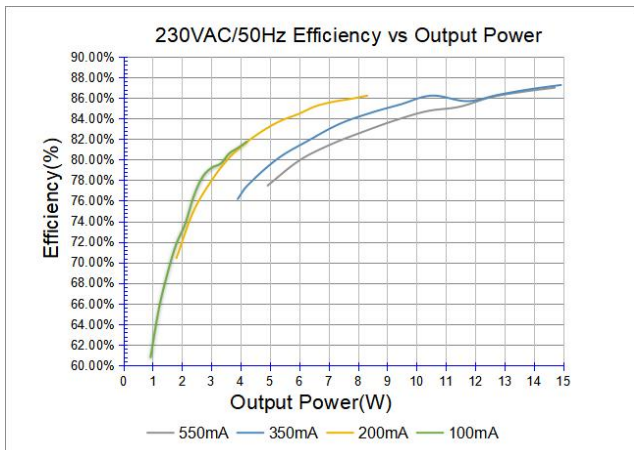
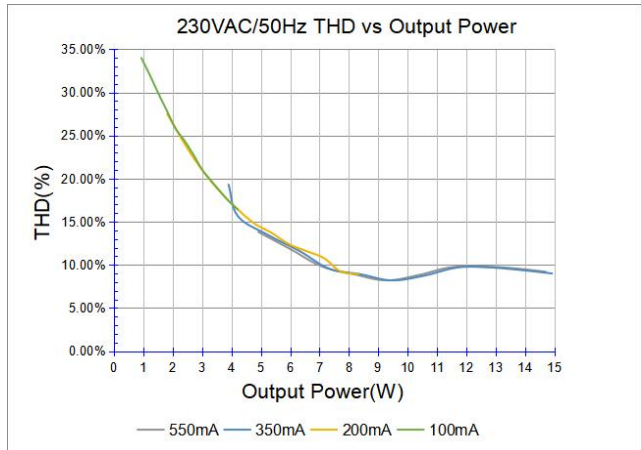
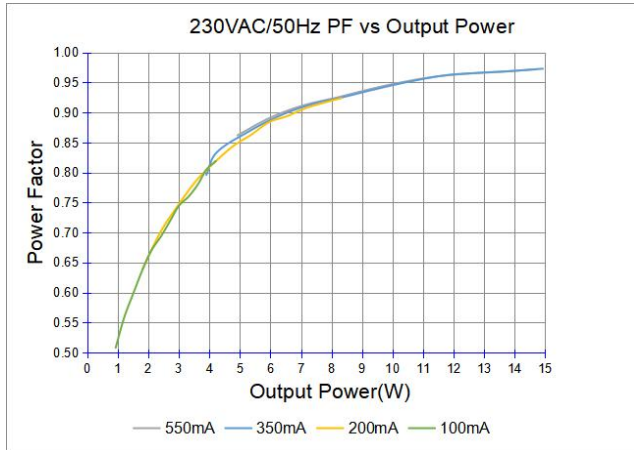
### Wiring diagram



### 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. 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.
- The recommended NFC communication distance: 5 ... 20 mm.

### Technical information



at Tc 80 °C (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 15 W + 5%.

#### Example of AOC settings

| V LED (VDC) | AOC max | Pout (W) |
|-------------|---------|----------|
| 42          | 350 mA  | 14.7     |
| 30          | 500 mA  | 15       |
| 27          | 550 mA  | 14.85    |