# ID ECSCI 42/230/300-1050 NFC ML B

Art.167548

## Product features

- Isolated adjustable power LED driver
- Current adjustment via NFC
- Constant lumen output (CLO)
- Output current 300 … 1,050 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 II



## Product specifications

**167548 ID ECSCI 42/230/300-1050 NFC ML B**

| Output current | Input voltage | Output voltage | Efficiency @ full load | Current accuracy | Power factor @ full load | Dimension L x W x H (mm) |
|---|---|---|---|---|---|---|
| 300 … 1,050 mA | 220 … 240 VAC<br>220 … 240 VDC | 9 … 42 VDC | 89 % (@ 40 V 1,050 mA) | ± 5 % | 0.9 (Output Power >15 W @ 230 VAC 50 Hz) | 181.5 x 31.1 x 42.2 |

## 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 | 0.22 A @ 230 VAC & 0.22 A @ 230 VDC |

| **Battery operation** | |
|---|---|
| DC voltage range | 220 … 240 VDC |
| Max. DC voltage range | 176 … 280 VDC |

| **Protection against voltage peaks** | |
|---|---|
| Withstand voltage | I/p-O/p: 3 kVAC, < 5 mA 60 sec |
| Mains surge immunity | L-N 1 kV |

| **Total harmonic distortion (THD)** | |
|---|---|
| At rated input voltage range @ full load | ≤ 10 % |

| **Output data** | |
|---|---|
| Output current tolerance | ± 5 % at rated input voltage range |
| No load output voltage | ≤ 55 VDC |
| Ripple output current | 5 % (ripple = peak/average total 100 Hz) |
| Output PstLM | ≤ 1 at full load @ rated input voltage |



Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
Bailutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

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| | |
|---|---|
| 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 55 VDC |
| Overpower protection | The output power is less than or equal to 47 W |
| Short circuit protection | Open circuit protection is designed to turn off the output and cannot be automatically restored. After removing the open circuit, the output can be restored by one of the following two operations:<br>• Receive Bluetooth dimming signal and turn on.<br>• Restart the driver: Power on the driver five seconds after the power failure. |

**Dimming operation and interface**

| | |
|---|---|
| Standby power consumption | < 0.4 W |
| Dimming mode | AM dimming |
| Dimming method | Bluetooth mesh dimming |
| Dimming current range | 1 … 100 % |

**Connection terminals**

| | |
|---|---|
| Connection terminal type | The output terminal is a 45° push-in terminal |
| Wire cross section | Output wire: 0.5 … 1.5 mm² |
| Wire stripping length | 8 … 9 mm |

**Degree of protection**

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

**Operating data**

| | |
|---|---|
| Output current range | NFC control adjusts the current: 300 … 1,050 mA |
| Default current | 300 mA |
| Output voltage range | 9 … 42 VDC |

**Circuit breaker / Inrush current**

| | | | | | |
|---|---|---|---|---|---|
| MCB loading quantity | Inrush current Ipeak: 27.5 A | | | Inrush current Twidth: 135 µs | |
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 28 | 37 | 46 | 59 |



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## Environmental specifications

| | |
|---|---|
| Operating temperature | -20 … +35 °C |
| Storage temperature | -25 … +85 °C |
| Working humidity | 10 … 90 % |
| Storage humidity | 5 … 95 % |
| Lifetime | at Tc 85 °C: 50,000 h; at Tc 75 °C: 100,000 h; @ 230 VAC |
| Maximum Tc temperature | 85 °C |

## Safety & EMC compliance

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

## Compatible Track

| Manufacturer/trademark | Model |
|---|---|
| Powergear | PRO-04XX |
| GLOBAL | XTS 4xxx |
| GLOBAL | XTSF 4xxx |
| A.A.G<br>STUCCHI | Series 9000 (Onetrack) |
| EUTRAC | 25-XX-Y<br>26-XX-Y<br>19-XX-Y |
| Unipro | TC312W |
| ZUMTOBEL | S280ZZZZ |
| IVELA | 75XX-XX-XX |
| iGuzzini | P2XX |
| XAL | MOVE IT PRO series |



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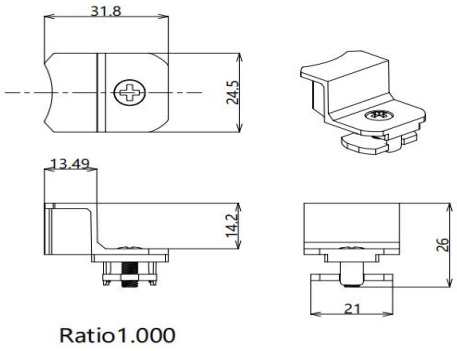
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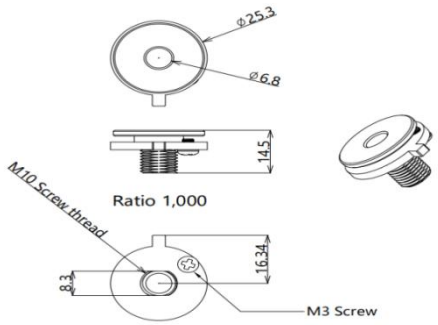
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## Accessories (optional)



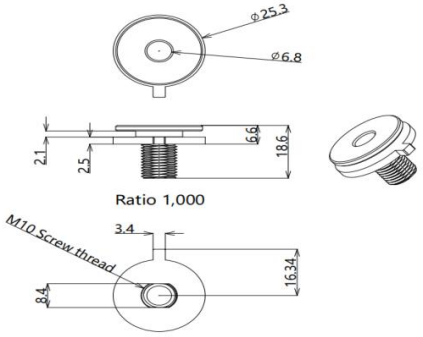



**Art.** 167838 XZ-TRACK-A B






**Art.** 167852 XZ-TRACK-A1 B






**Art.** 168132 XZ-TRACK-B B

| Dimensions | Length (mm) | Width (mm) | Height (mm) |
|---|---|---|---|
| XZ-TRACK-A B | 31.8 | 24.5 | 26 |
| XZ-TRACK-A1 B | 25.3 | 25.3 | 14.5 |
| XZ-TRACK-B B | 25.3 | 25.3 | 18.6 |

The first two accessories are designed for EL certification of the entire luminarie.
The third accessory is an optional threaded sleeve for luminarie installation.



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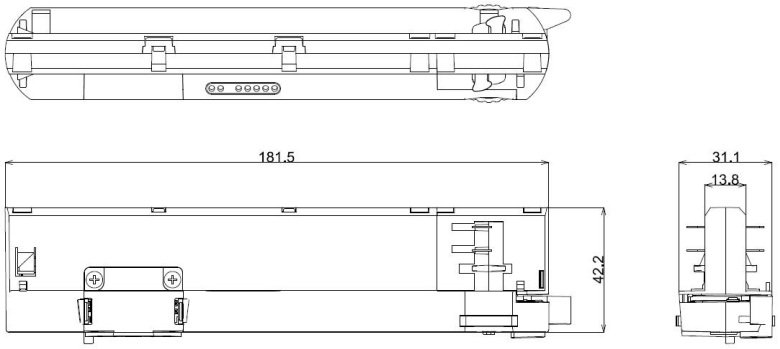
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## Dimensions

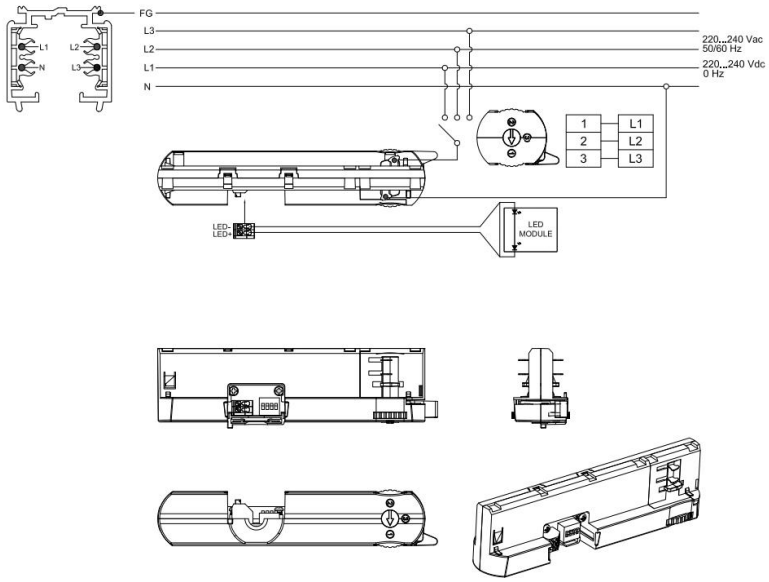
| Housing dimensions | |
|---|---|
| Length (L) | 181.5 mm |
| Width (W) | 31.1 mm |
| Height (H) | 42.2 mm |

For all dimensions: values in mm; tolerances: ± 0.5 mm

| Packaging details | |
|---|---|
| Packing units | 50 pcs |
| Carton size | 339 x 200 x 290 mm |
| Carton weight | 6.6 kg |
| Product weight | 0.125 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.



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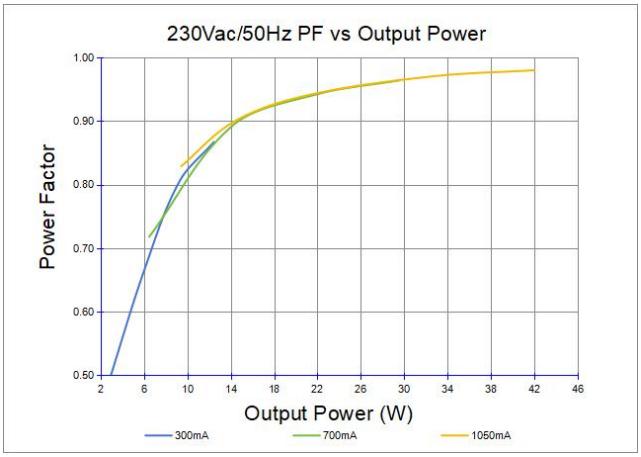
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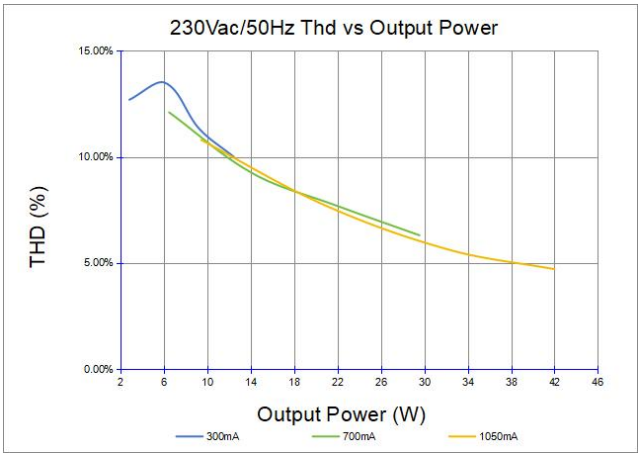
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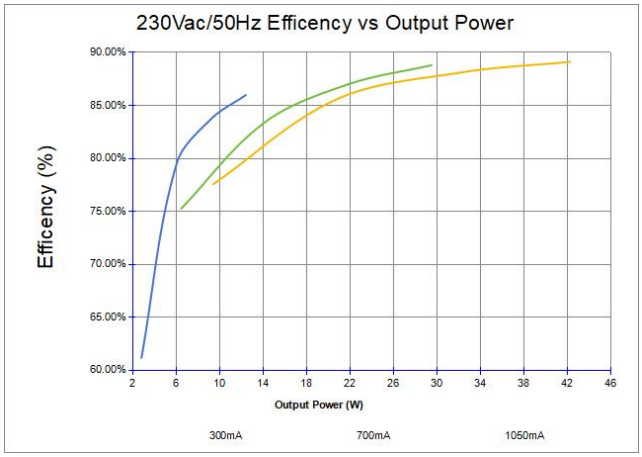
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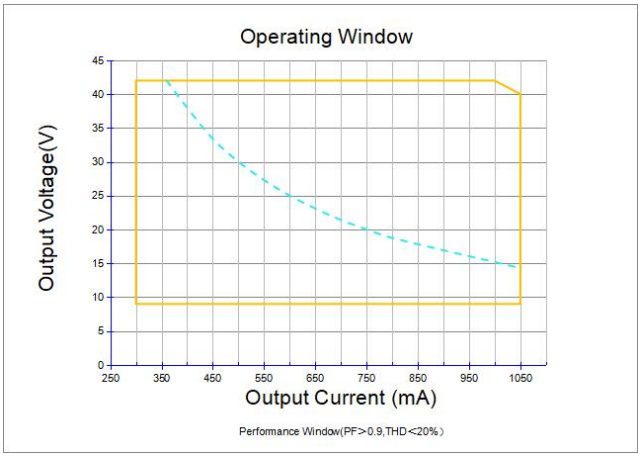
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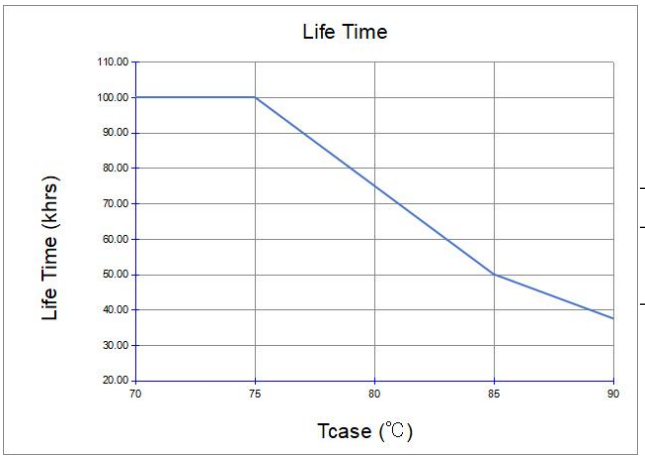
## Technical information




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) |
|---|---|---|
| 42 | 1,000 mA | 42 |
| 40 | 1,050 mA | 42 |



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