

Product features



- Stand alone type dimmable adjustable output power LED driver
- Supports DALI-2, push DIM
- Flicker free LED driver, DALI-2 certified incl. Parts 251, 252, 253
- Output current: 150 mA, 200 mA, 250 mA, 300 mA, 350 mA, 400 mA, 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA
- Max. output power 28 W
- Constant lumen output (CLO)
- For luminaires with protection class I, II
- 5-year warranty



Product specifications

161287 ID CCCB 28/230/150-700 DALI FV1

| Output current | Input voltage | Output voltage | Efficiency @full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|----------------|--------------------------------|----------------|-----------------------|------------------|--------------|----------------------|
| 150...700 mA | 220...240 Vac 198...250 Vdc | 6...52 Vdc | 88% | ± 5% | 0.9 | 97 x 43 x 30 |

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 | 0.25 A @ 230 Vac |

Battery operation

| | |
|-----------------------|---------------|
| DC voltage range | 198...250 Vdc |
| Max. DC voltage range | 176...276 Vdc |

Protection against voltage peaks

| | |
|----------------------|---|
| Withstand voltage | I/p-O/p: 3.75kVac, < 5mA 60 sec; I/p-DA/p: 1.5 kVac, < 5 mA 60 sec; O/p-DA/p: 1.5 kVac, < 5 mA 60 sec |
| Mains surge immunity | L-N 1 kV, DA/L-DA/N 1 kV |

Total harmonic distortion (THD)

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

Output data

| | |
|--------------------------|-----------------------------------|
| Output current tolerance | ± 5% at rated input voltage range |
| No load output voltage | ≤ 59 Vdc |

| | |
|-----------------------|--|
| Ripple output current | 4% (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 |

Protection functions output side

| | |
|--------------------------|---|
| Overvoltage protection | The output voltage is less than or equal to 59 V |
| Overpower protection | The output power is less than or equal to 30 W |
| Short circuit protection | Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed. |

Dimming operation and interface

| | |
|---------------------------|-------------------|
| Standby power consumption | ≤ 0.5 W |
| Dimming mode | DALI-2, push DIM |
| Dimming method | Amplitude dimming |
| Dimming current range | 1%~100% |

Connection terminals

| | |
|--------------------------|--|
| Connection terminal type | Push in terminal |
| Wire cross section | Input and output wire: 0.5...1.5 mm ² |
| Wire stripping length | 7...8 mm |

Degree of protection

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

Operating data

| | |
|----------------------|--|
| Output current range | DIP-switch adjusts the current: 150 mA, 200 mA; 250 mA, 300 mA, 350 mA, 400 mA, 450 mA, 500 mA, 550 mA, 600 mA, 650 mA, 700 mA |
| Default current | 150 mA |
| Output voltage range | 6...52 Vdc |

Circuit breaker / Inrush current

| MCB loading quantity | Inrush current I _{peak} : 2.4 A | | | Inrush current T _{width} : 34 μs | |
|----------------------|--|-----|-----|---|-----|
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 58 | 58 | 93 | 93 |
| | | | | | |

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.

Environmental specifications

| | |
|------------------------|----------------------------------|
| Operating temperature | -20...+50°C |
| Storage temperature | -40...+80°C |
| Working humidity | 10%...90% |
| Store humidity | 5%...90% |
| Lifetime | at Tc 85°C: 50,000 hrs @ 230 Vac |
| Maximum Tc temperature | 85°C |

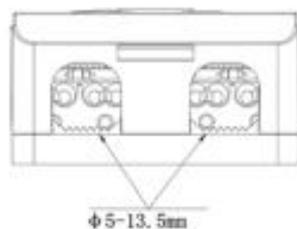
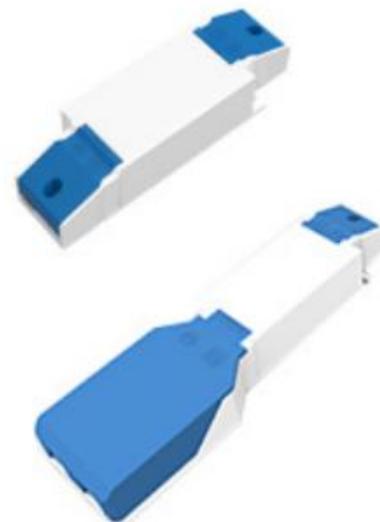
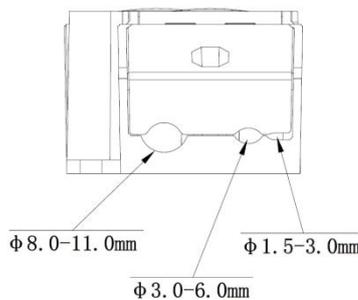
Safety & EMC compliance

| ENEC+CE |
|-----------------------------|
| EN 61347-2-13:2014/A1: 2017 |
| EN 61347-1:2015/A1: 2021 |
| EN 62384:2006/A1: 2009 |
| EN 55015:2013/A1: 2015 |
| EN 61000-3-2: 2014 |
| EN 61000-3-3: 2013 |
| EN 61547:2009 |
| EN IEC 62384:2020 |
| EN 62493:2015 |

| CCC |
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| SAA |
|----------------------------|
| AS/NZS IEC 61347.2.13.2013 |
| AS/NZS 61347.1: 2016 |
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Accessories (optional)



| Dimensions | Length (mm) | Width (mm) | Height (mm) |
|-------------------------------------|-------------|------------|-------------|
| XZ-ID-A | 38 | 34 | 30 |
| XZ-ID-LOOP-A | 107 | 57 | 30 |
| Driver incl. 2 x XZ-ID-A | 143 | 43 | 30 |
| Driver incl. XZ-ID-A + XZ-ID-LOOP-A | 212 | 57 | 30 |

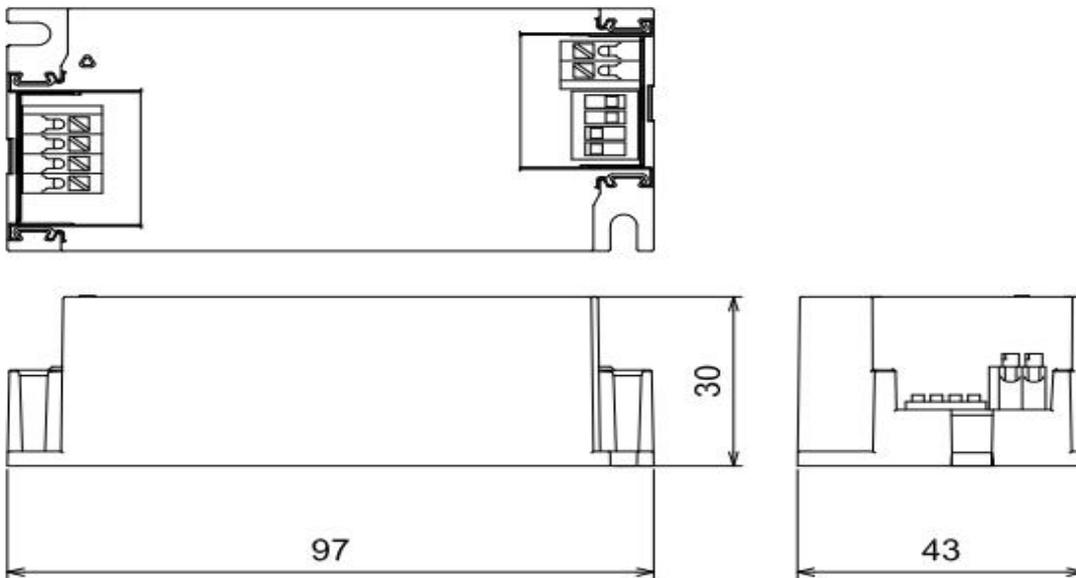
Dimensions

Housing dimensions

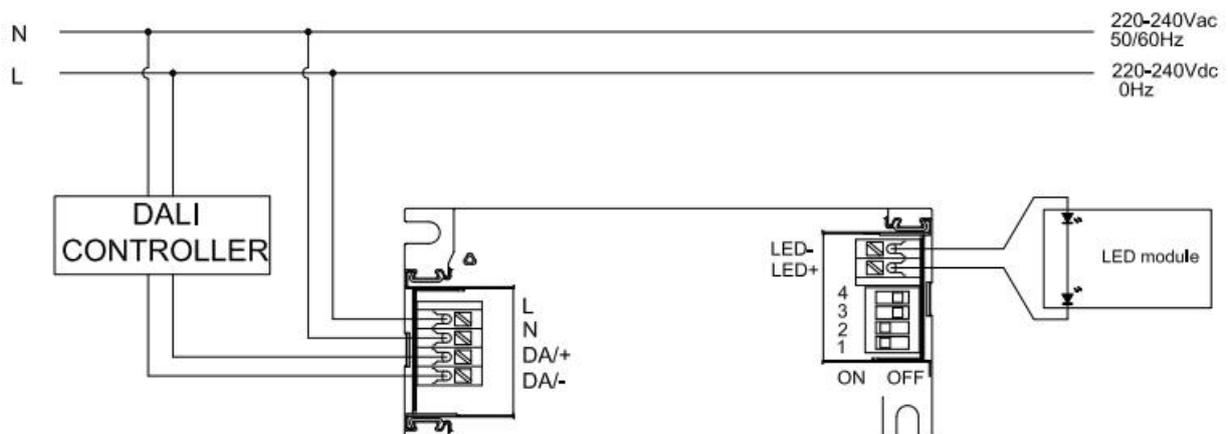
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|------------|---------|
| Length (L) | 97 mm |
| Width (W) | 43 mm |
| Height (H) | 30 mm |
| Weight | 0.95 kg |

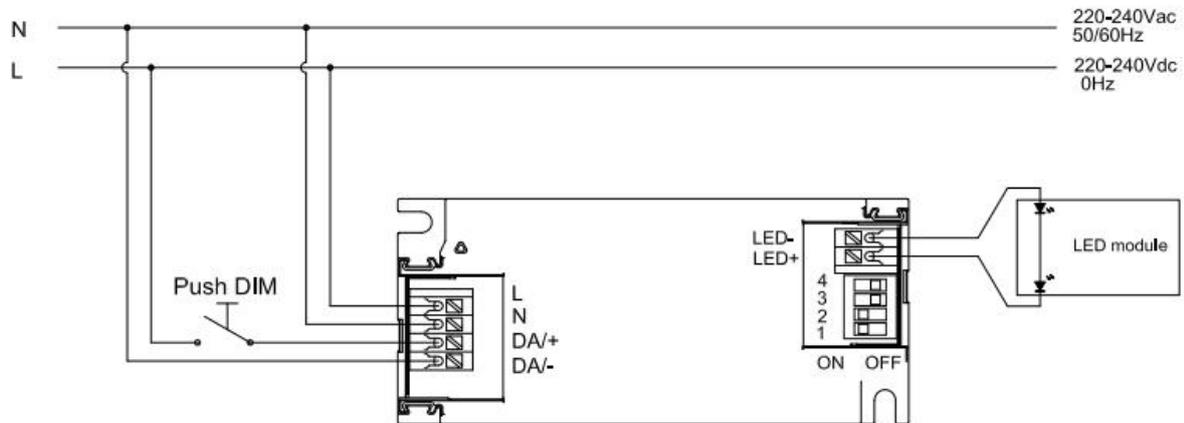
Packaging details

| | |
|---------------|--------------------|
| Packing units | 45 pcs. |
| Carton size | 303 x 225 x 120 mm |
| Weight | 4.5 kg |



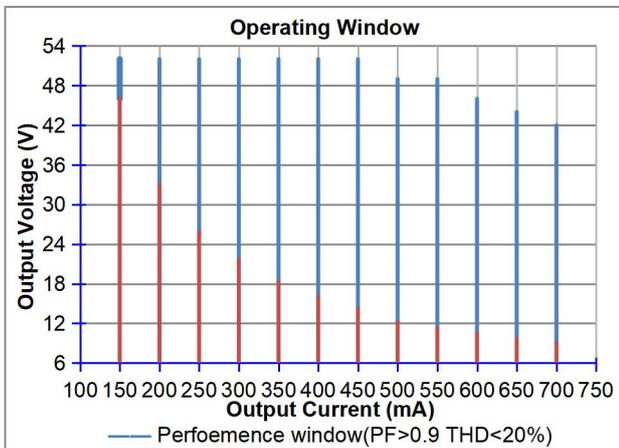
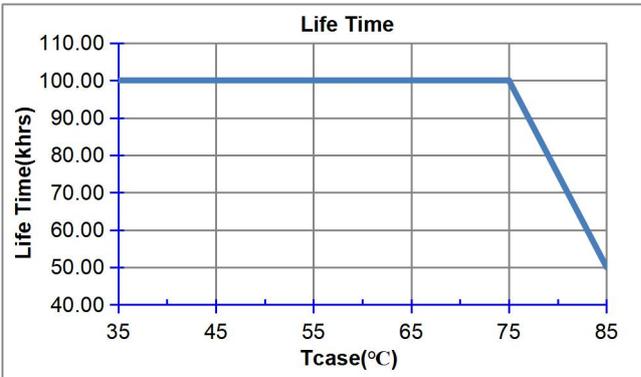
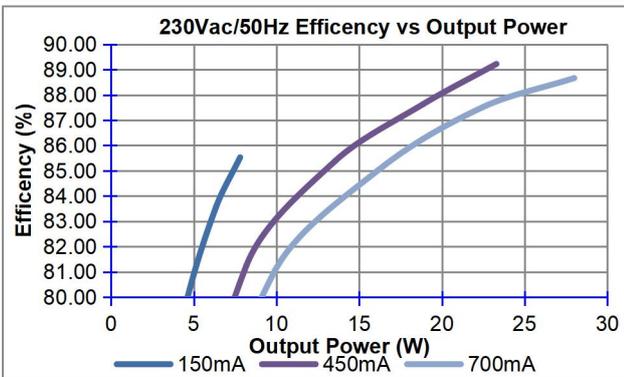
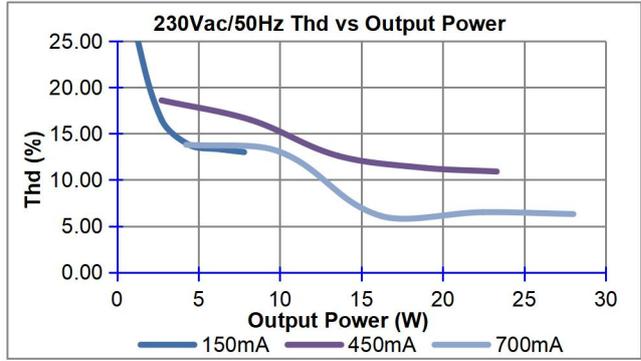
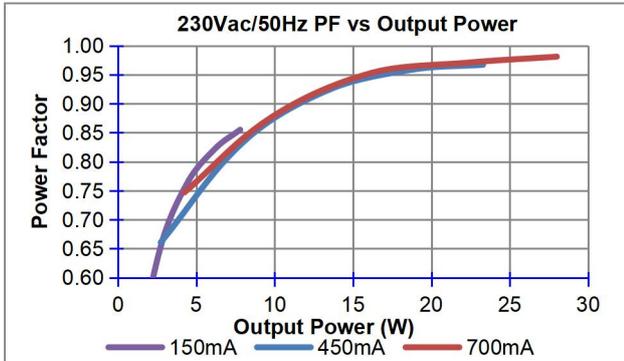
Wiring diagram





- 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).
- Incorrect wiring can damage the 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 28 W + 5%.

Adjustable output current with DIP-switch

| Vout (V) | Pout (W) | Iout (mA) | 1 | 2 | 3 | 4 |
|----------|----------|-----------|----|----|----|----|
| 6-52 | | | - | - | - | - |
| 6-52 | | | - | - | - | ON |
| 6-52 | 7.8 | 150 | - | - | ON | - |
| 6-52 | | | - | - | ON | ON |
| 6-52 | | | - | ON | - | - |
| 6-52 | 10.4 | 200 | - | ON | - | ON |
| 6-52 | 13.0 | 250 | - | ON | ON | - |
| 6-52 | 15.6 | 300 | - | ON | ON | ON |
| 6-52 | 18.2 | 350 | ON | - | - | - |
| 6-52 | 20.8 | 400 | ON | - | - | ON |
| 6-52 | 23.4 | 450 | ON | - | ON | - |
| 6-49 | 24.5 | 500 | ON | - | ON | ON |
| 6-49 | 27.0 | 550 | ON | ON | - | - |
| 6-46 | 27.6 | 600 | ON | ON | - | ON |
| 6-44 | 27.3 | 650 | ON | ON | ON | - |
| 6-42 | 28 | 700 | ON | ON | ON | ON |