

Product features

- Flicker-free LED driver
- Built-in isolated adjustable power LED driver
- Current adjustment via DIP-switch
- Output current: 1050...1400 mA
- Max. output power 50 W
- For luminaires with protection class I
- 5-year warranty



Product specifications

161607 ID LCCB 50/230/1050-1400 DIP FV1

| Output current | Input voltage | Output voltage | Efficiency @full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|----------------|--------------------------------|----------------|-----------------------|------------------|--------------|----------------------|
| 1050...1400 mA | 220...240 Vac 220...240 Vdc | 15...48 Vdc | 89% | ± 5% | 0.9 | 278x30x21 |

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 | 0.3 A @ 230 Vac |

Battery operation

| | |
|-----------------------|---------------|
| DC voltage range | 220...240 Vdc |
| Max. DC voltage range | 176...276 Vdc |

Protection against voltage peaks

| | |
|----------------------|---|
| Withstand voltage | I/O: 3.0 kVac, I/FG: 1.5 kVac, O/FG: 1.5 kVac; < 5 mA, 60 sec |
| Mains surge immunity | L-N 1 kV, L-FG 2 kV, N-FG 2 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 |

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 42 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

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|---------------------------|---|
| Standby power consumption | - |
|---------------------------|---|

Connection terminals

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|--------------------------|--|
| Connection terminal type | Push in terminal |
| Wire cross section | Input and output wire: 0.5...1.5 mm ² |
| Wire stripping length | 8...9 mm |

Degree of protection

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

Operating data

| | |
|----------------------|---|
| Output current range | DIP-switch adjusts the current: 1050 mA, 1100 mA, 1150 mA, 1200 mA, 1250 mA, 1300 mA, 1350 mA, 1400mA |
| Default current | 1050 mA |
| Output voltage range | 15...48 Vdc |

Circuit breaker / Inrush current

| | | | | | |
|----------------------|---|-----|-----|--|-----|
| MCB loading quantity | Inrush current I _{peak} : 21.6 A | | | Inrush current T _{width} : 276 µs | |
| | MCB type | B10 | C10 | B16 | C16 |
| | Units | 10 | 17 | 17 | 28 |

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.

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 | 80°C |

Safety & EMC compliance

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

| CCC |
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| SAA |
|----------------------------|
| AS/NZS IEC 61347.2.13.2013 |
| AS/NZS 61347.1:2016 |
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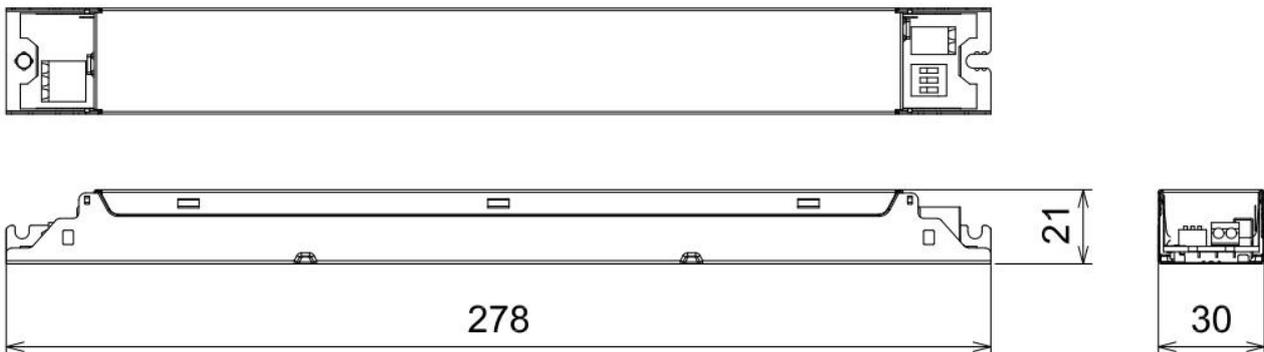
Dimensions

Housing dimensions

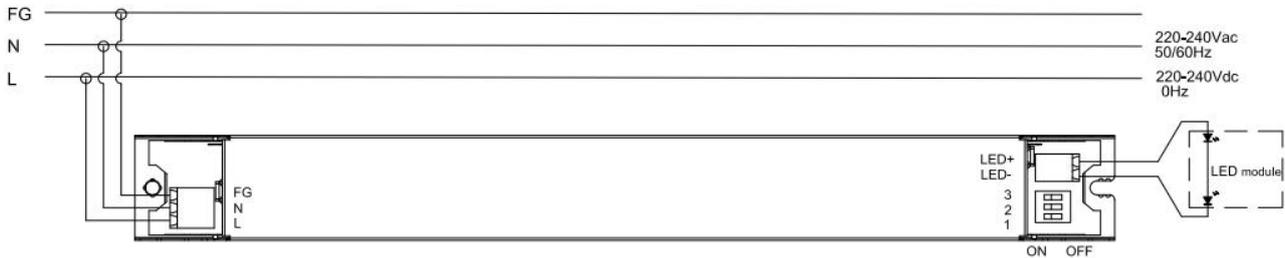
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|------------|---------|
| Length (L) | 278 mm |
| Width (W) | 30 mm |
| Height (H) | 21 mm |
| Weight | 0.21 kg |

Packaging details

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|---------------|--------------------|
| Packing units | 56 pcs |
| Carton size | 375 x 325 x 185 mm |
| Weight | 12.3 kg |

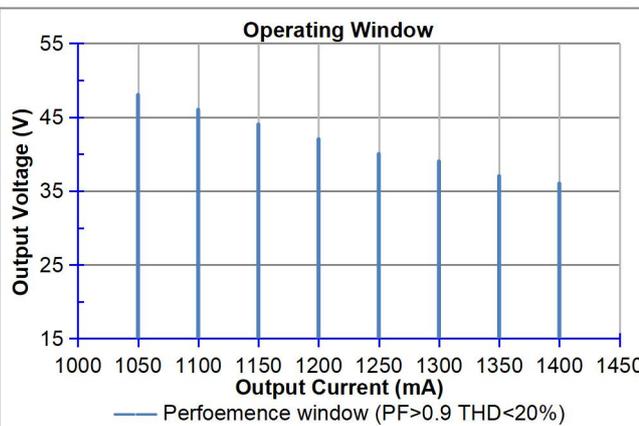
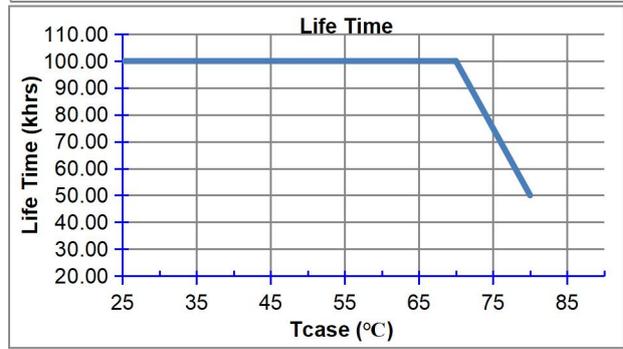
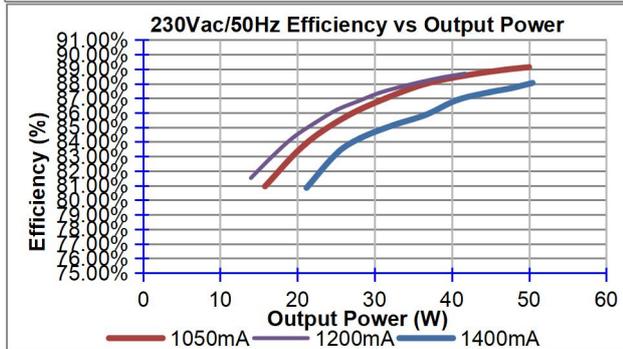
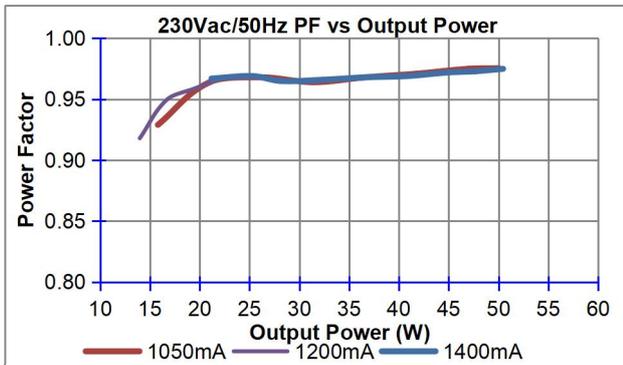


Wiring diagram



- 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 circuit.

Technical information



It's important to set output current (AOC value) according to LEDs voltage, make sure the power is within 50 W +5%

Adjustable output current with DIP-switch

| Vout (V) | Pout (W) | Iout (mA) | 1 | 2 | 3 |
|----------|----------|-----------|----|----|----|
| 15...48 | 50.4 | 1050 | - | - | - |
| 15...46 | 50.6 | 1100 | - | - | ON |
| 15...44 | 50.6 | 1150 | - | ON | - |
| 15...42 | 50.4 | 1200 | - | ON | ON |
| 15...40 | 50 | 1250 | ON | - | - |
| 15...39 | 50.7 | 1300 | ON | - | ON |
| 15...37 | 49.95 | 1350 | ON | ON | - |
| 15...36 | 50.4 | 1400 | ON | ON | ON |