

Product features

- Flicker-free LED driver
- Supports DALI-2, push DIM
- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Supports i-Data function (DALI part 251,252,253)
- Output current 250...1050 mA
- Max. output power 40 W
- Constant lumen output (CLO)
- For luminaires with protection class I
- 5 years warranty



Product specifications

160860 ID LCCB 40/230/250-1050 DALI NFC FV1

| Output current | Input voltage | Output voltage | Efficiency @ full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|----------------|--------------------------------|----------------|------------------------|------------------|--------------|----------------------|
| 250 mA | 220...240 Vac 220...240 Vdc | 15...54 Vdc | 86.5% | ± 5% | 0.9 | 278x30x16 |
| 500 mA | | 15...54 Vdc | 88.5% | | | |
| 750 mA | | 15...54 Vdc | 89% | | | |
| 1050 mA | | 15...38.1 Vdc | 87% | | | |

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 |

Battery operation

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

Protection against voltage peaks

| | |
|----------------------|--|
| Withstand voltage | I/p-FG: 1.5 kVac, < 5 mA 60 sec; I/P-DA: 1.5 kVac, < 5 mA 60s I/p-O/p: 3.75 kVac, < 5 mA 60 sec; O/P-DA: 1.5 kVac, < 5 mA 60s O/p-FG: 1.5 kVac, < 5 mA 60 sec, DA-FG: 1.5 kVac, < 5 mA 60s |
| 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 44 W |
| Short circuit protection | Yes |

Dimming operation and interface

| | |
|---------------------------|----------------------|
| Dimming mode | DALI-2, push dimming |
| Dimming method | Amplitude dimming |
| Dimming current range | 1%...100% |
| Standby power consumption | ≤ 0.3 W |

Connection terminals

| | |
|--------------------------|--|
| Connection terminal type | 0° 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 | NFC control adjusts the current: 250...1050 mA |
| Default current | 250 mA |
| Output voltage range | 15...54 Vdc |
| Noise level | < 20 dB, at full load @100 cm distance |

Circuit breaker / Inrush current

| | | | | | |
|----------------------|---|-----|-----|---|-----|
| | Inrush current I _{peak} : 5.07 A | | | Inrush current T _{width} : 44.5 μs | |
| MCB loading quantity | MCB type | B10 | C10 | B16 | C16 |
| | Units | 29 | 29 | 46 | 46 |

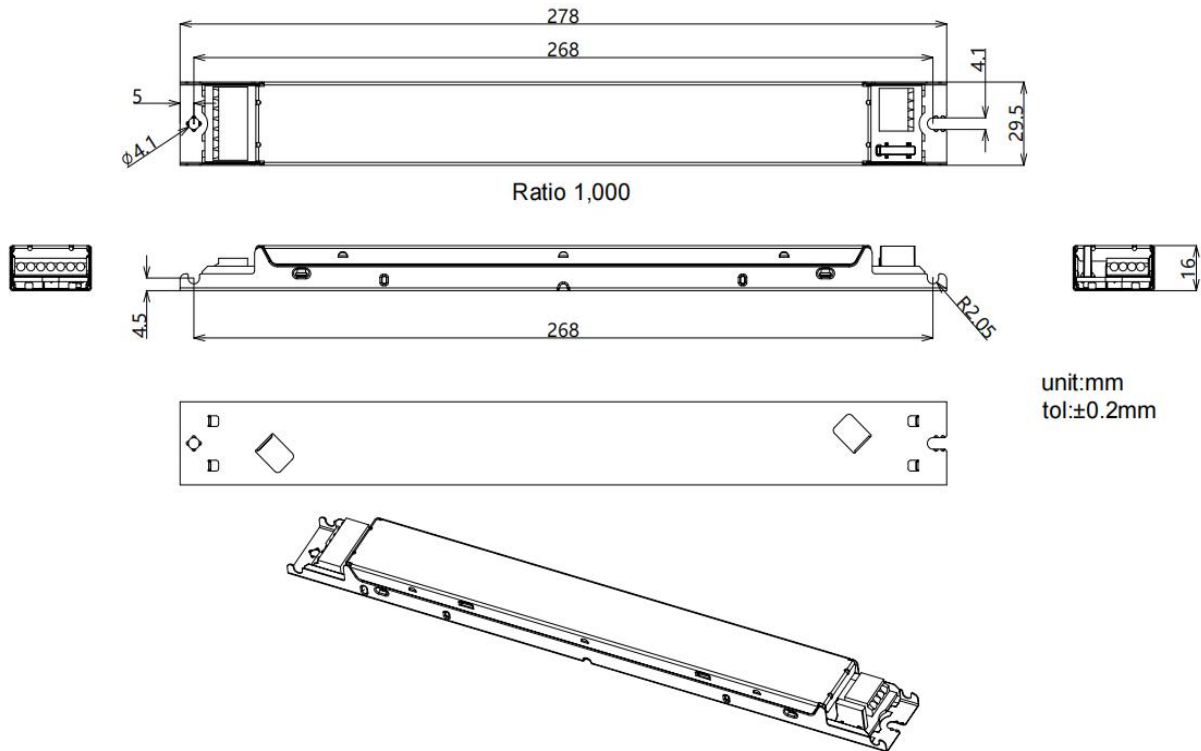
Dimensions

Housing dimensions

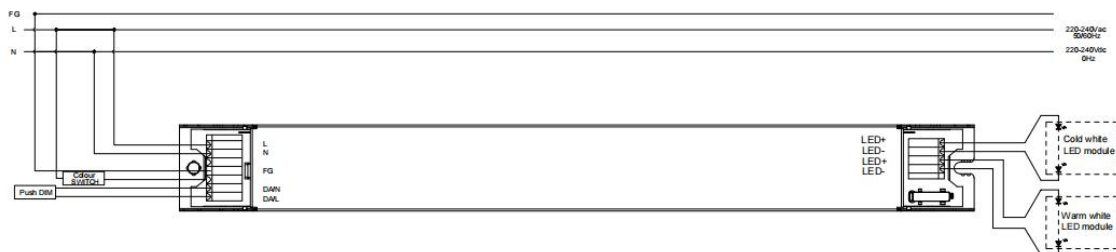
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|------------|----------|
| Length (L) | 278 mm |
| Width (W) | 30 mm |
| Height (H) | 16 mm |
| Weight | 0.165 kg |

Packaging details

| | |
|---------------|-------------------|
| Packing units | 20 pcs. |
| Carton size | 299 x 128 x103 mm |
| Weight | 3.5 kg |

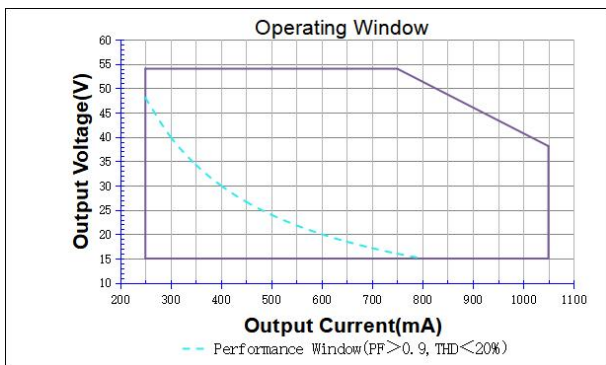
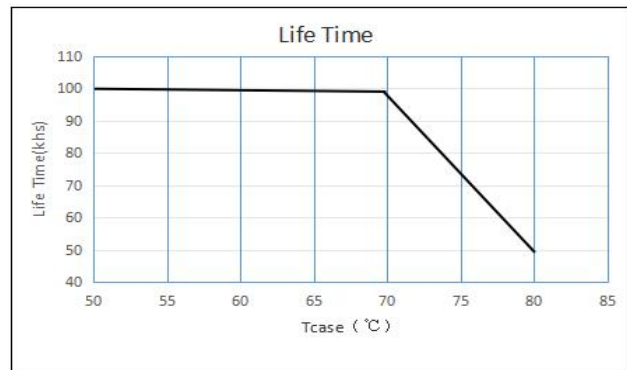
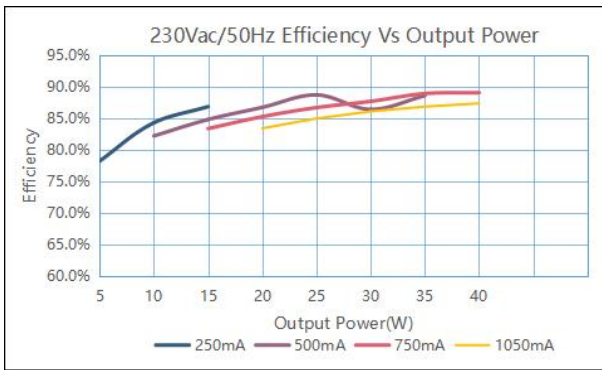
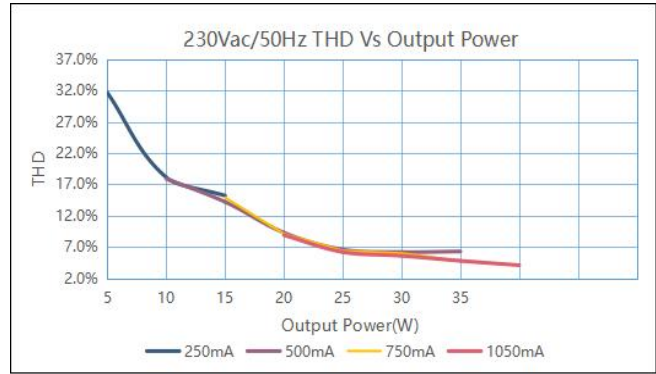
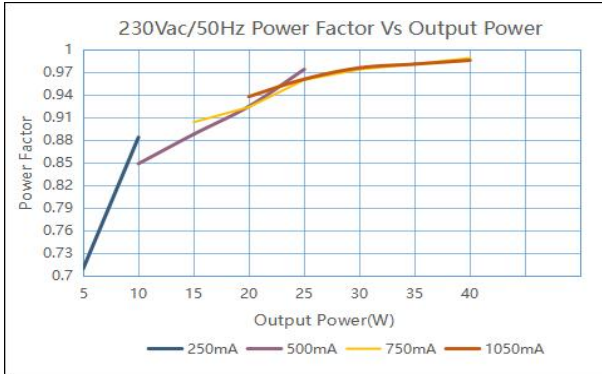


Wiring diagram



- 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).
- 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 the output current (AOC value) according to the LED voltage and make sure the power is within 40 W + 5%.

Example of AOC settings

| V LED (Vdc) | AOC max | Pout (W) |
|-------------|---------|----------|
| 54 | 250 mA | 15 |
| 54 | 500 mA | 25 |
| 54 | 750 mA | 40 |
| 38.1 | 1050 mA | 40 |