

Product features

- Built-in isolated adjustable power LED driver
- Supports DALI-2
- Flicker-free LED driver
- Current adjustment via switch
- Output current 350...1400 mA by dip switch adjust
- Max. output power 54 W
- Constant lumen output (CLO)
- For luminaires with protection class I, class II
- 5 years warranty



Product specifications

163502 XZ-DF54B-540140-AA

| Output current | Input voltage | Output voltage | Efficiency @ full load | Current accuracy | Power factor | Dimension LxWxH (mm) |
|----------------|---------------|----------------|------------------------|------------------|--------------|----------------------|
| 350 mA | 120 Vac | 10...54 Vdc | 88% | ± 5% | 0.9 | 278x30x21 |
| 700 mA | | 10...54 Vdc | 88.5% | | | |
| 1000 mA | | 10...54 Vdc | 90% | | | |
| 1400 mA | | 10...38.5 Vdc | 89% | | | |
| 350 mA | 277 Vac | 10...54 Vdc | 88% | | | |
| 700 mA | | 10...54 Vdc | 89% | | | |
| 1000 mA | | 10...54 Vdc | 91% | | | |
| 1400 mA | | 10...38.5 Vdc | 90% | | | |

Electrical specifications

Mains voltage supply

| | |
|---------------------------|------------------|
| Rated input voltage range | 120...277 Vac |
| Max. input voltage range | 108...305 Vac |
| Rated frequency range | 50/60 Hz |
| Max. input current | 0.58 A @ 120 Vac |

Protection against voltage peaks

| | |
|-------------------|--|
| Withstand voltage | I/P-FG: 1.8 kVac, < 5 mA 60 s; I/P-DA: 1.8 kVac, < 5 mA 60 s O/P-FG: 1.8 kVac, < 5 mA 60 s; O/P-DA: 0.6 kVac, < 5 mA 60 s DA-FG: 0.6 kVac, < 5 mA 60 s; I/P-O/P: 1.8 kVac, < 5 mA 60 s |
|-------------------|--|

| | |
|----------------------|-----------------------|
| Mains surge immunity | L-N 1 kV, L/N-FG: 2kV |
|----------------------|-----------------------|

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 | 60 Vdc |
| Ripple output current | 5% (ripple = peak/average total 120 Hz) |

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 59.4 W |
| Short circuit protection | Yes |

Dimming operation and interface

| | |
|---------------------------|-----------|
| Dimming current range | 1%...100% |
| Standby power consumption | 0.5 W |

Connection terminals

| | |
|--------------------------|----------------------------------|
| Connection terminal type | 45° push in terminal |
| Wire cross section | Input and output wire: 16-20 AWG |
| Wire stripping length | 8...9 mm |

Degree of protection

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

Operating data

| | |
|----------------------|--|
| Output current range | DIP control adjusts the current: 350...1400 mA |
| Default current | 350 mA |
| Output voltage range | 10...54 Vdc |
| Noise level | < 20 dB, at full load @ 100 cm distance |

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.
- Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Environmental specifications

| | |
|------------------------|---|
| Operating temperature | -20...+50°C |
| Storage temperature | -40...+85°C |
| Working humidity | 10%...90% |
| Store humidity | 5%...95% |
| Lifetime | at Tc 85°C: 50,000 hrs; at Tc 75°C: 100,000 hrs @ 120 Vac |
| Maximum Tc temperature | 85°C |

Safety & EMC compliance

| UL | CCC | SAA |
|----------------------|-----|-----|
| UL 8750 | | |
| CSA C22.2 No. 250.13 | | |
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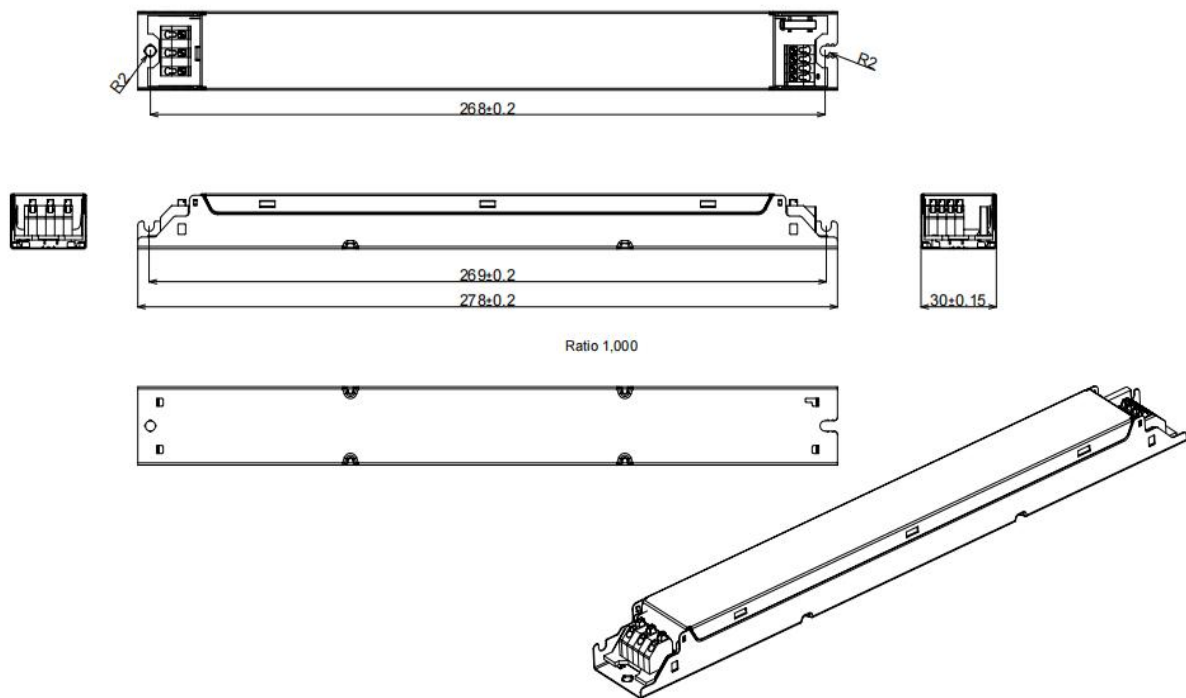
Dimensions

Housing dimensions

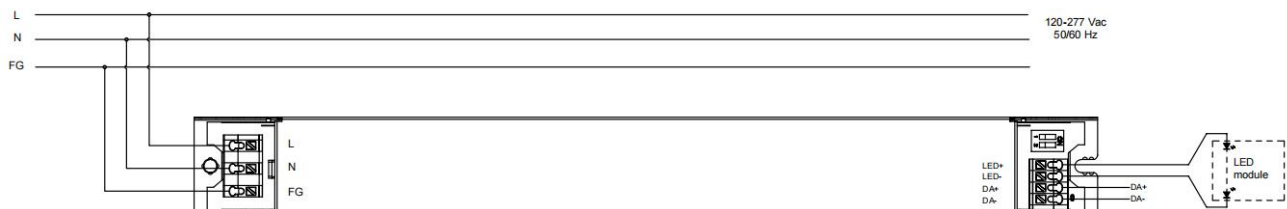
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|------------|----------|
| Length (L) | 278 mm |
| Width (W) | 30 mm |
| Height (H) | 21 mm |
| Weight | 0.205 kg |

Packaging details

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|---------------|-------------------|
| Packing units | 56 pcs |
| Carton size | 375 x 325 x185 mm |
| Weight | 12.18 kg |

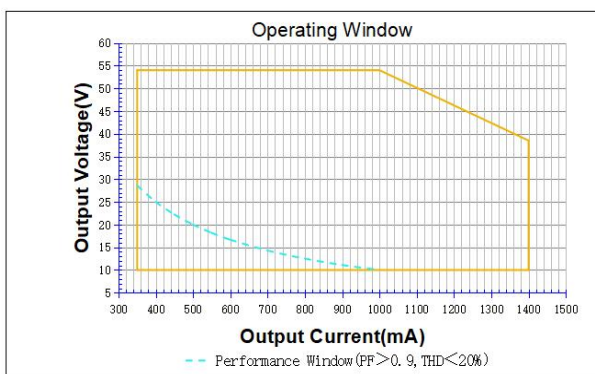
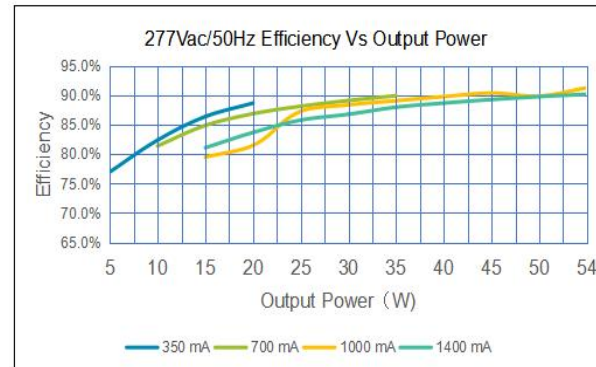
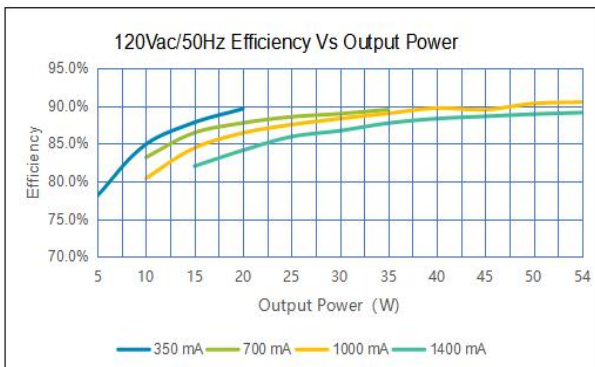
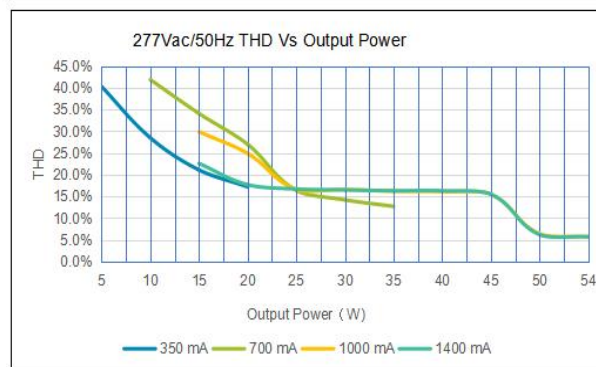
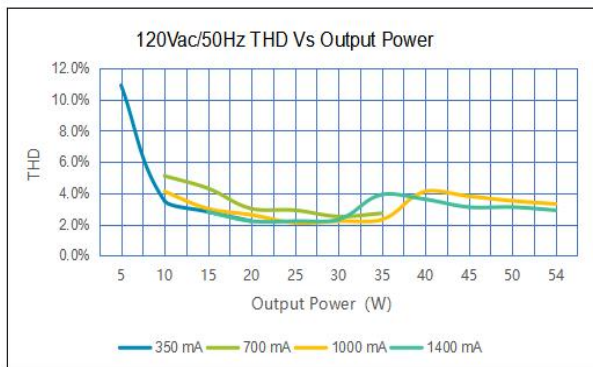
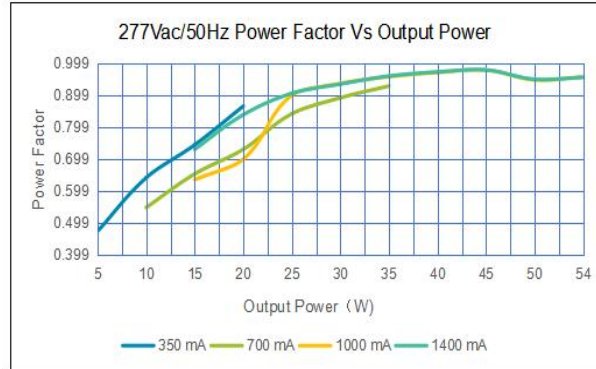
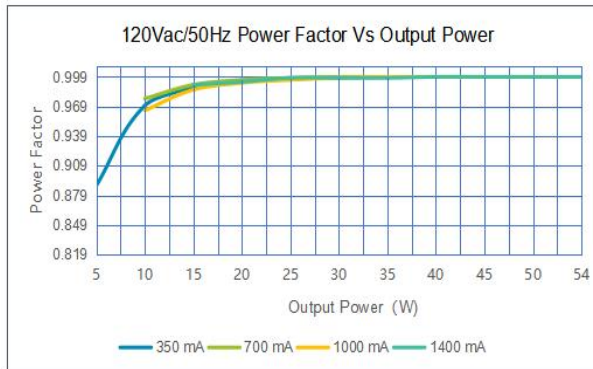


Wiring diagram



- 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 54 W + 5%.

Example of AOC settings

| V LED (Vdc) | AOC max | Pout (W) |
|-------------|---------|----------|
| 54 | 350 mA | 15 |
| 54 | 700 mA | 37.8 |
| 54 | 1000 mA | 54 |
| 38.5 | 1400 mA | 54 |