XZ-DF54B-540140-BB

Art. 163212

Product features

- Built-in isolated adjustable power LED driver
- Supports DALI-2
- Flicker-free LED driver
- Current adjustment via NFC
- Output current 150…1400 mA
- Max. output power 54 W
- Constant lumen output (CLO)
- For luminaires with protection class I,class I I
- 5 years warranty

Product specifications

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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%	± 5%	0.9 @ > 10 W load	278x30x21
700 mA		10…54 Vdc	90%			
1050 mA		10…51.5 Vdc	89.5%			
1400 mA		10…38.5 Vdc	88.5%			
350 mA	347 Vac	10…54 Vdc	86%		0.9 @ > 40 W load	
700 mA		10…54 Vdc	89.5%			
1050 mA		10…51.5 Vdc	90%			
1400 mA		10…38.5 Vdc	89%			

Electrical specifications

Mains voltage supply

Rated input voltage range	120…347 Vac
Max. input voltage range	108...380 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: 0.6 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

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

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 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	NFC control adjusts the current: 150…1400 mA
Default current	150 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.

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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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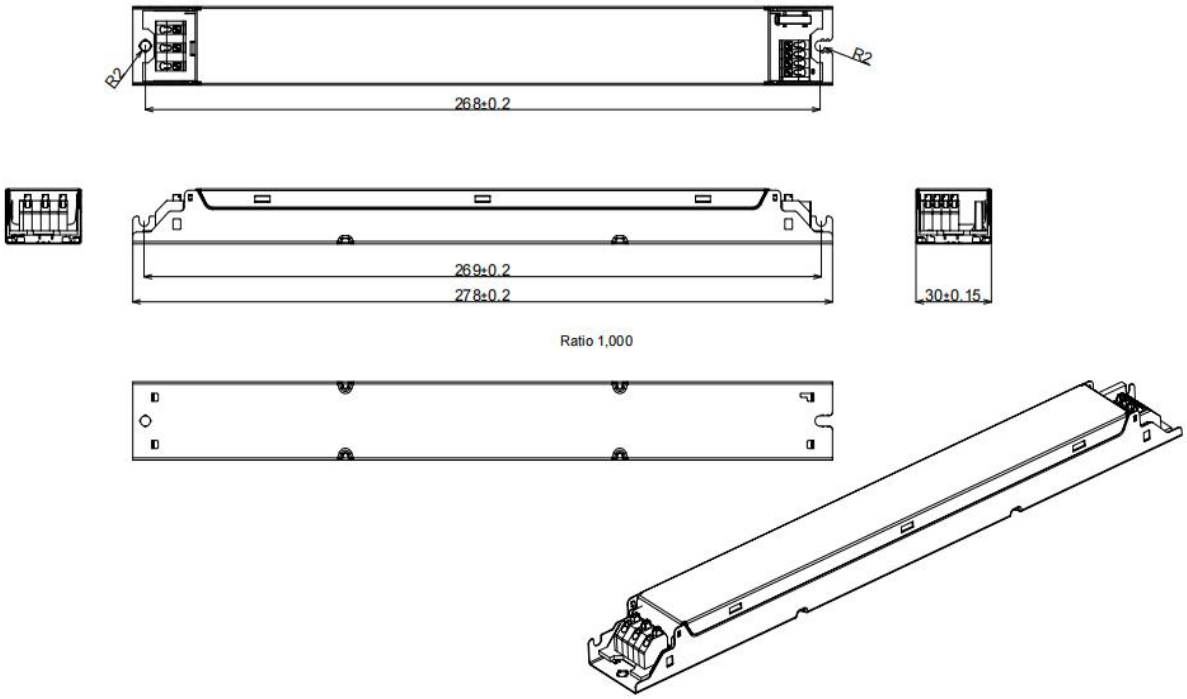
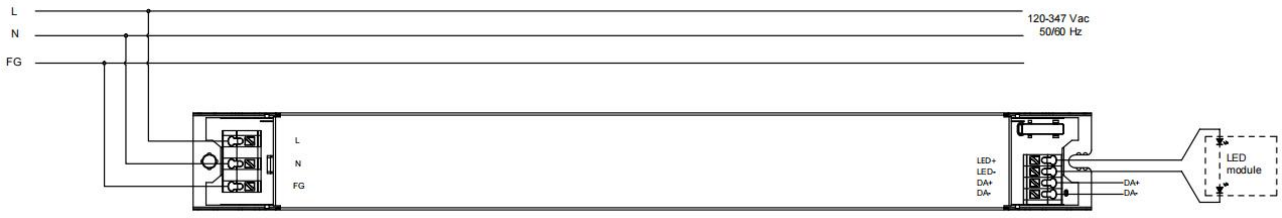
Dimensions

Housing dimensions	
Length (L)	278 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.205 kg

Packaging details	
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.

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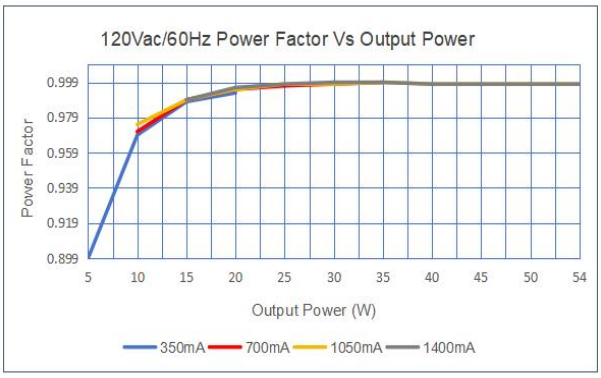
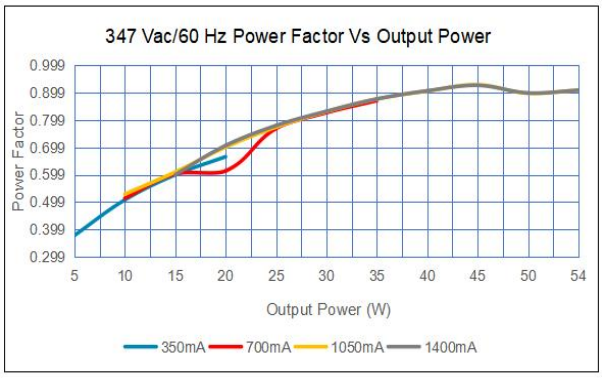
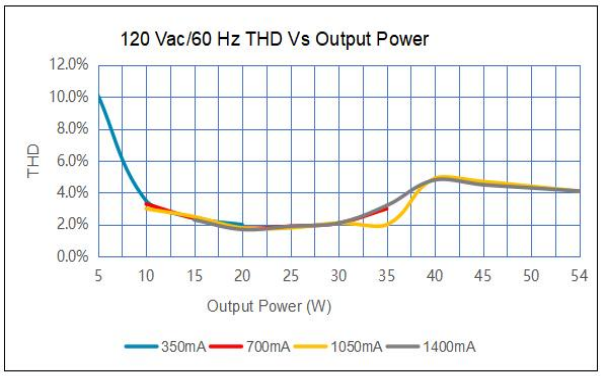
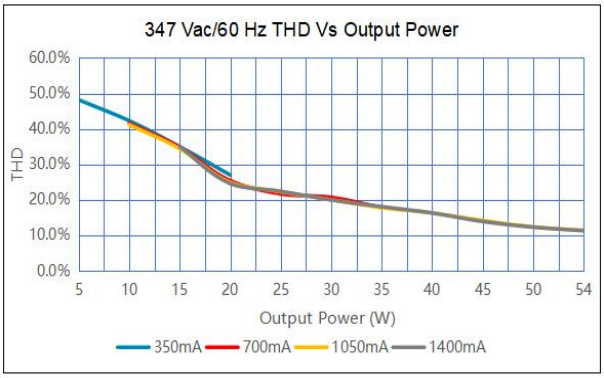
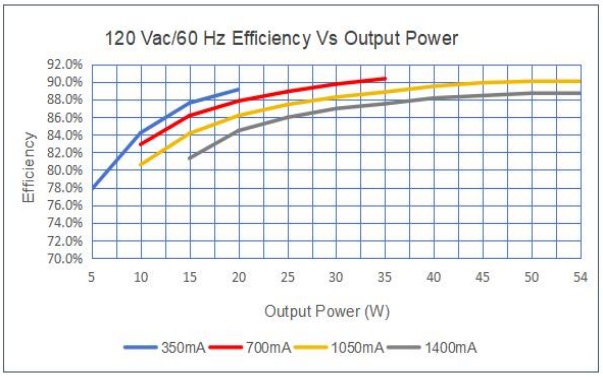
Technical information

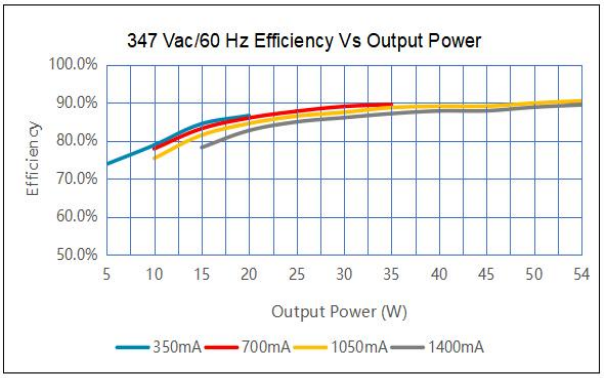


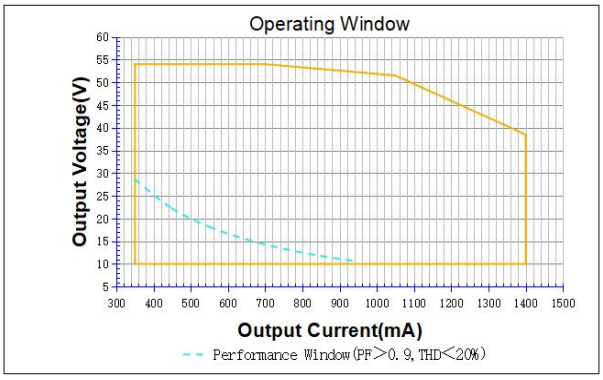












It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 54 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
54	350 mA	15
54	700 mA	37.8
51.5	1050 mA	54
38.5	1400 mA	54

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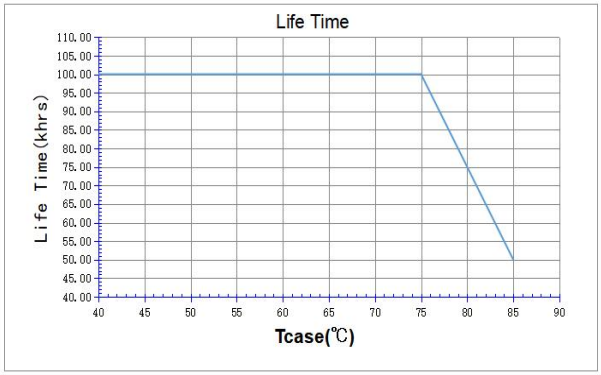

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