

Product features

- Built-in non isolated adjustable power color temperature LED driver
- Flicker-free LED driver
- Output current 350... 900 mA by DIP switch adjust
- Max. output power 150 W
- For luminaires with protection class I
- 5 years warranty



Product specifications

167111 XZ-LH150B-241090-A

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
350 mA	220...240 Vac 220...240 Vdc	50...240 Vdc	94%	± 5%	0.9	238 x 30 x 21
400 mA		50...240 Vdc	94.5%			
450 mA		50...240 Vdc	94.5%			
500 mA		50...240 Vdc	94.5%			
550 mA		50...240 Vdc	95%			
600 mA		50...240 Vdc	95%			
650 mA		50...232 Vdc	95%			
700 mA		50...215 Vdc	95%			
750 mA		50...200 Vdc	95%			
800 mA		50...188 Vdc	94.5%			
850 mA		50...177 Vdc	94.5%			
900 mA		50...166 Vdc	94%			

Electrical specifications

Mains voltage supply

Rated input voltage range	220...240 Vac; performance range
Max. input voltage range	198...264 Vac; operational safety range
Rated frequency range	0/50/60 Hz
Performance/Operational safety	47...63 Hz
Max. input current	0.7 A @ 230 Vac & 0.7 A @ 230 Vdc

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Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	198...280 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, < 5 mA 60sec
Mains surge immunity	L-N1 kV, L-FG 2 kV, N-FG 2 kV per IEC 61000-4-5

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 10%
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Output data

Output current tolerance	± 5% at rated input voltage range
Turn-on Delay time	0.5s at full load @ low rated input voltage
No load output voltage	≤ 300 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

Short circuit protection	Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed
Over voltage protection	Over voltage protection: Hiccup mode. Protection device will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.

Connection terminals

Connection terminal type	45° push in terminal
Wire cross section	Input wire: 0.5...1.5 mm ² ; Output wire: 0.2...1.5 mm ²
Wire stripping length	8...9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output current range	DIP control adjusts the current: 350...900 mA
Output voltage range	50...240 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current I _{peak} : 33.2 A			Inrush current T _{width} : 310 μs	
	MCB type	B10	C10	B16	C16
	Units	9	11	15	18

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.
- It is recommended that customers install under voltage protection and surge protection devices in the power supply circuit of lamps to ensure the safety of electricity consumption.
- The power supply is used in combination with the terminal equipment as a part of the whole lamp. Because the EMC performance is affected by LED lamps and wiring, the terminal is set in case the manufacturer needs to reconfirm the EMC of the whole device.
- The outputs of drivers cannot be in parallel.

Environmental specifications

Operating temperature	-20...+50°C
Storage temperature	-25...+85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 75°C: 100,000 hrs; Tc 85°C:50,000 @ 230 Vac
Maximum Tc temperature	90°C

Safety & EMC compliance

ENEC+CE+EL	CCC	SAA
EN 61347-1:2015/A1		AS 61347.2.13
EN 61347-2-13:2014/A1		AS/NZS 61347.1
EN IEC 62384		
EN IEC:55015:2019+A11		
EN IEC 61547		
EN IEC 61000-3-2:201+/A1		
EN 61000-3-3:2013+A1:2019+A2		

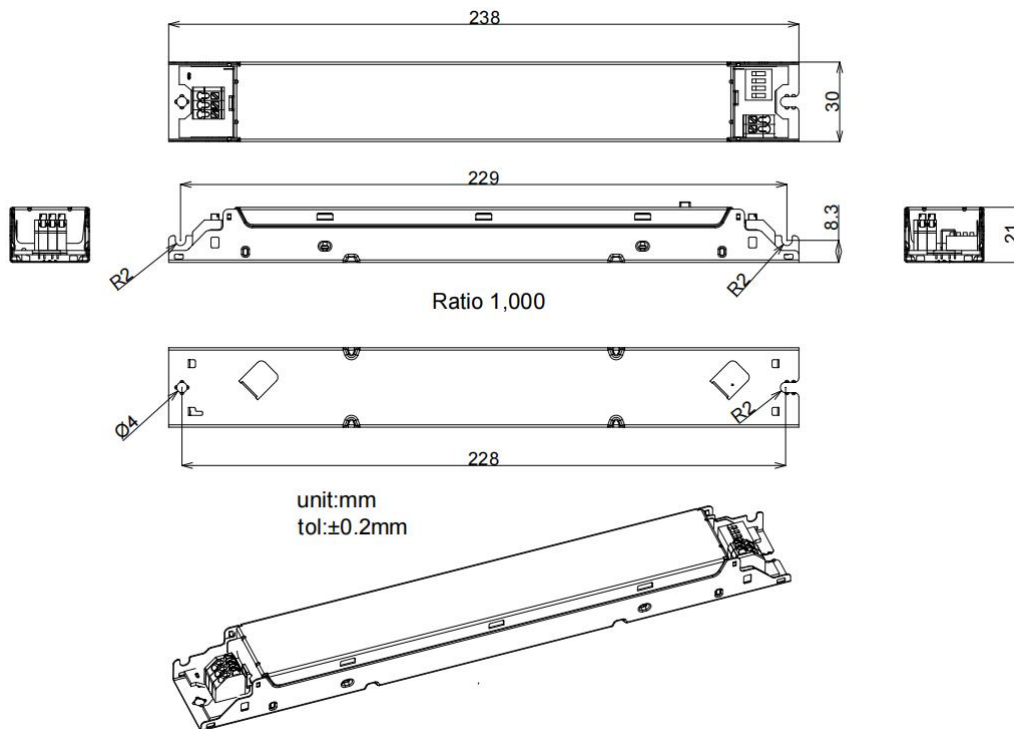
Dimensions

Housing dimensions

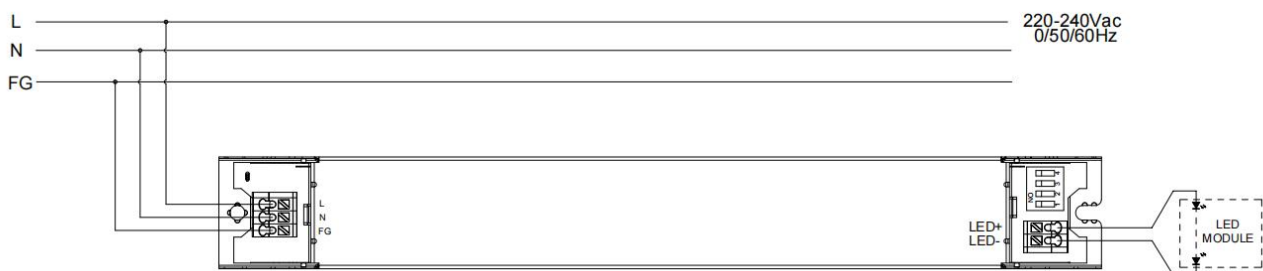
Length (L)	238 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.196 kg

Packaging details

Packing units	60 pcs
Carton size	317 x 248 x 175 mm
Weight	12.46 kg

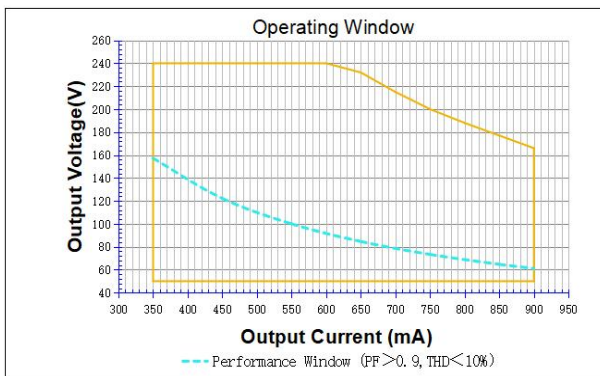
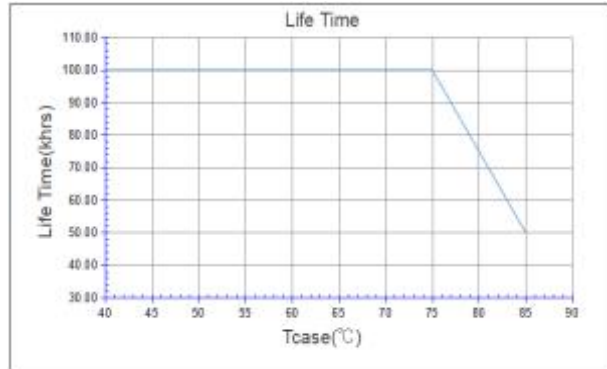
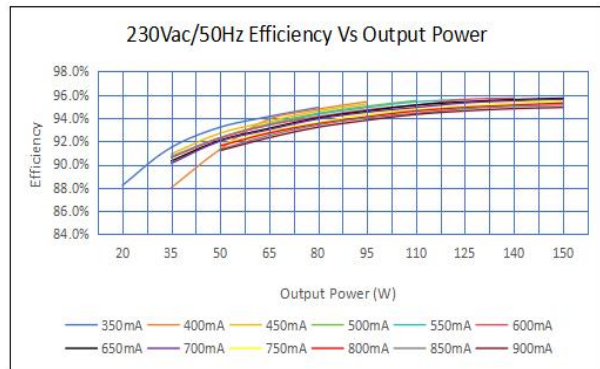
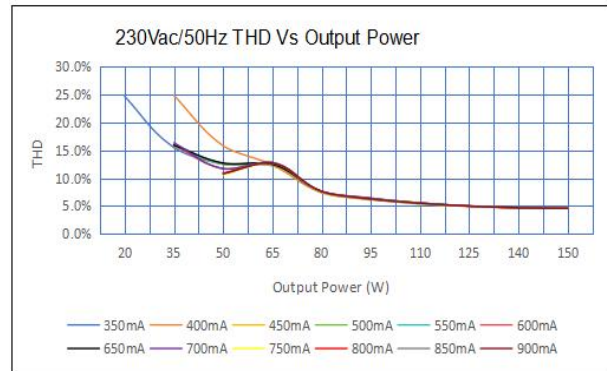
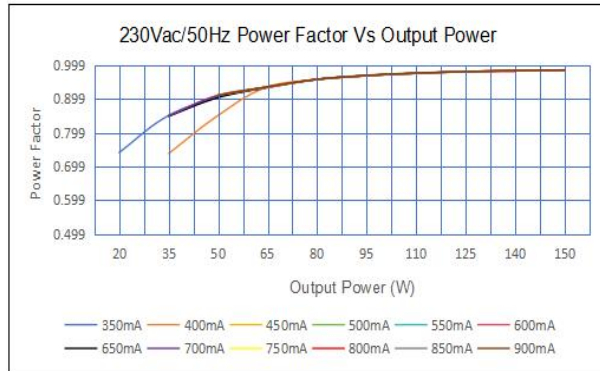


Wiring diagram



- 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



Adjustable output current with DIP switch						
Vout	Pout	Iout	1	2	3	4
50...240 Vdc	84 W	350 mA	OFF	OFF	OFF	OFF
	96 W	400 mA	ON	OFF	OFF	OFF
	108 W	450 mA	OFF	ON	OFF	OFF
	120 W	500 mA	OFF	OFF	ON	OFF
	132 W	550 mA	ON	OFF	ON	OFF
	144 W	600 mA	OFF	OFF	OFF	ON
50...231 Vdc	150 W	650 mA	ON	OFF	OFF	ON
50...215 Vdc	150 W	700 mA	OFF	ON	OFF	ON
50...200 Vdc	150 W	750 mA	ON	ON	OFF	ON
50...188 Vdc	150 W	800 mA	ON	OFF	ON	ON
50...177 Vdc	150 W	850 mA	OFF	ON	ON	ON
50...166 Vdc	150 W	900 mA	ON	ON	ON	ON

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 150 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
50...240 Vdc	350 mA	84
50...240 Vdc	400 mA	96
50...240 Vdc	450 mA	108
50...240 Vdc	500 mA	120
50...240 Vdc	550 mA	150
50...240 Vdc	600 mA	150
50...231 Vdc	650 mA	150
50...215 Vdc	700 mA	150
50...200 Vdc	750 mA	150
50...188 Vdc	800 mA	150
50...177 Vdc	850 mA	150
50...166 Vdc	900 mA	150