CUPOWER

XZ-LH60B-171035-A

Art. 164158

Product features

- Built-in non isolated adjustable power LED driver
- Flicker-free LED driver
- Output current 200... 350 mA
- Max. output power 61.2 W
- For luminaires with protection class I
- 5 years warranty

Product specifications

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Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension L x W x H (mm)
200 mA	220…240 Vac 220…240 Vdc	90…175 Vdc	93.0%	± 5%	0.71C…0.95	157 x 30 x 21
250 mA			93.5%			
300 mA			93.5%			
350 mA			93.5%			

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	0.30 A @ 230 Vac & 0.30 A @ 230 Vdc

Battery operation

DC voltage range	220...240 Vdc; performance range
Max. DC voltage range	176…280 Vdc; operational safety range

Protection against voltage peaks

Withstand voltage	I/p-FG: 1.5 kVac, <5 mA 60 sec
Mains surge immunity	L-N 1 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	0.5 s at full load @ low rated input voltage
No load output voltage	≤250 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 mm²; Output wire: 0.2…1.5 mm²
Wire stripping length	8…9 mm

Degree of protection	
Protection rating	IP20

Operating data	
Output voltage range	90…175 Vdc
Noise level	<20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 33.0 A			Inrush current Twidth: 168 µs	
	MCB type	B10	C10	B16	C16
	Units	19	27	30	44

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.

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Environmental specifications

Operating temperature	-20…+50°C
Storage temperature	-40…+80°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime	at Tc 65°C: 100,000 hrs; at Tc 75°C: 50,000 hrs; Tc 85°C: 25,000 @ 230 Vac
Maximum Tc temperature	85°C

Safety & EMC compliance

ENEC+CE+EL
EN 61347-1:2015/A1
EN 61347-2-13:2014/A1
EN IEC 62384
EN 61347-1:2015/A1
EN 61347-2-13:2014/A1

CCC
GB 17625.1
GB/T 17743
GB 19510.1
GB 19510.14

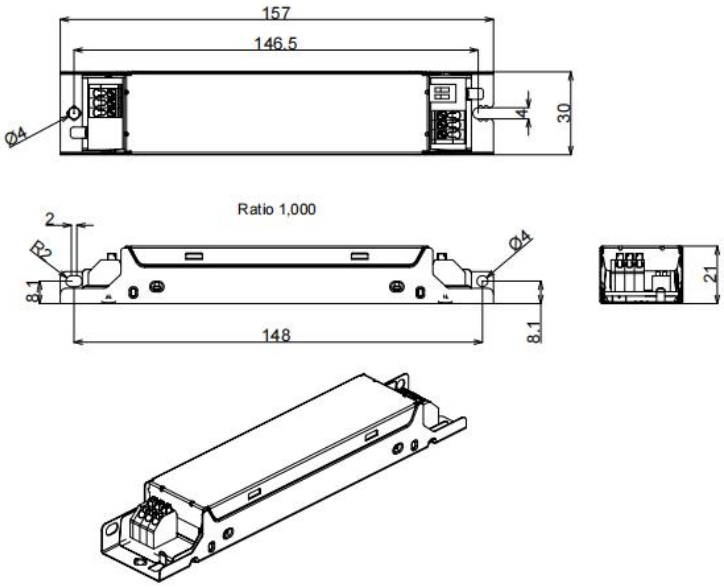
SAA
AS 61347.2.13
AS/NZS 61347.1:2016+A1

Dimensions

Housing dimensions	
Length (L)	157 mm
Width (W)	30 mm
Height (H)	21 mm

For all dimensions: values in mm; tolerances: ± 0.5 mm

Packaging details	
Packing units	60 pcs
Carton size	317 x 167 x 160 mm
Carton weight	6.5 kg
Product weight	0.1 kg



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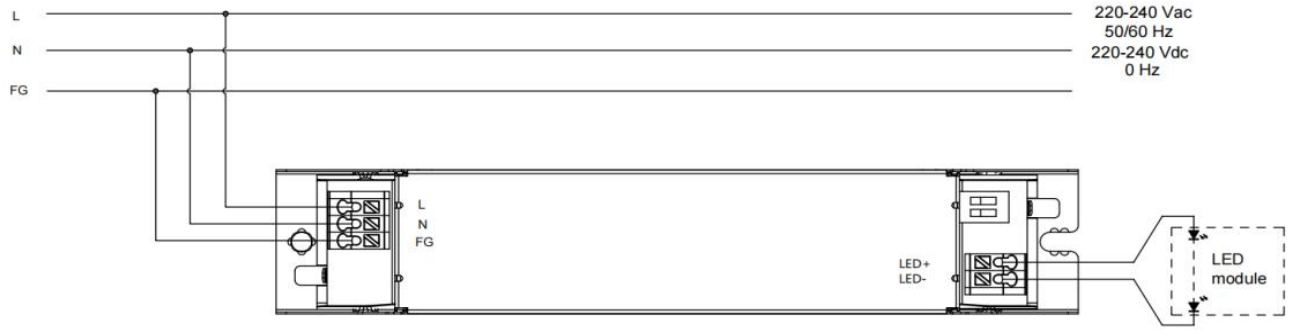
Wiring diagram



- 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.
- The outputs of drivers cannot be in paralleled.

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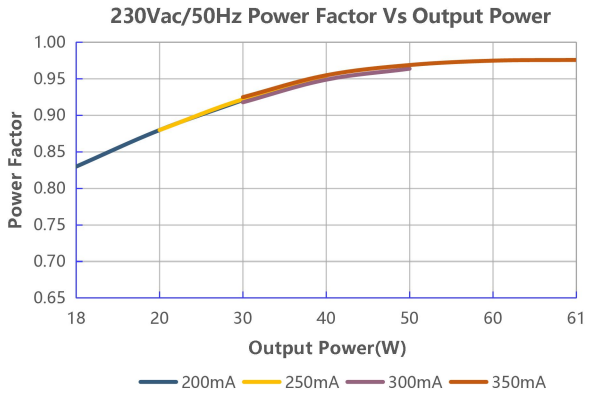
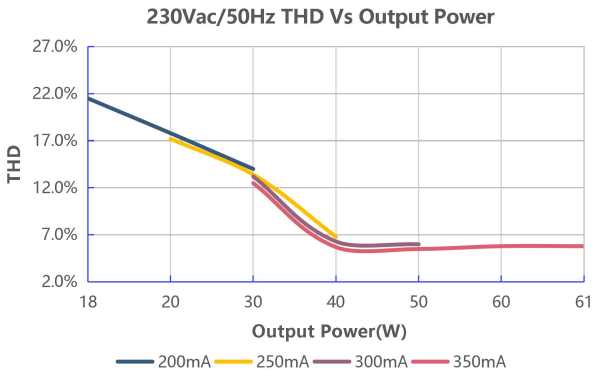
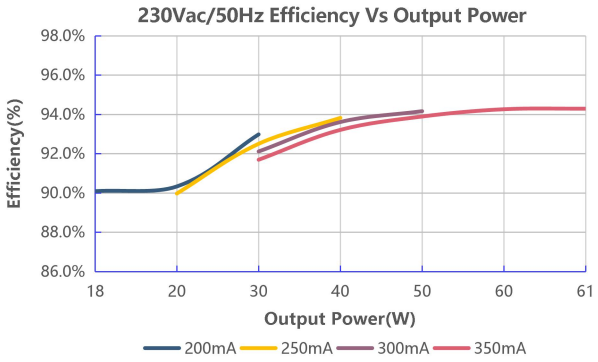
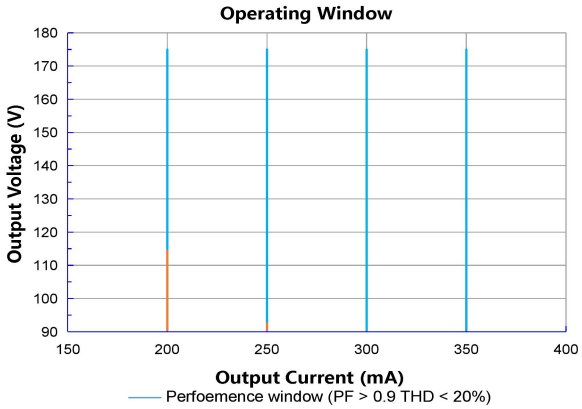
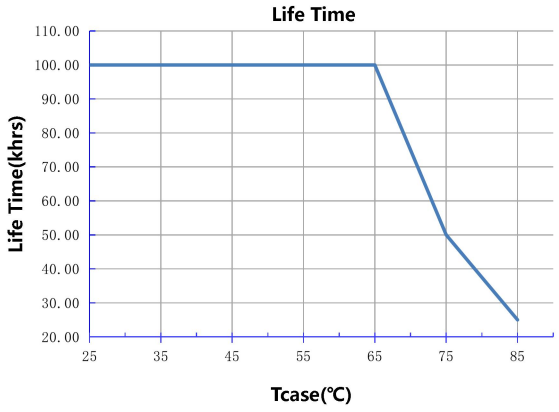
Technical information











It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 61.2 W + 5%.

Adjustable output current with DIP switch

Vout	Pout	Iout	1	2
90…175 Vdc	35 W	200 mA	OFF	OFF
90…175 Vdc	43.7 W	250 mA	OFF	ON
90…175 Vdc	52.5 W	300 mA	ON	OFF
90…175 Vdc	61.2 W	350 mA	ON	ON

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