

### Product features

- Built-in non isolated adjustable power color temperature LED driver
- Flicker-free LED driver
- DIP control adjusts the current
- Output current 200... 800 mA by dip switch adjust
- Max. output power 100 W
- For luminaires with protection class I
- 5 years warranty



### Product specifications

#### XZ-LH100B-241080-T

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor	Dimension LxWxH (mm)
200 mA	220...240 Vac 220...240 Vdc	50...240 Vdc	93%	± 15	0.9	193 x 30 x 21
250 mA		50...240 Vdc	94.5%			
300 mA		50...240 Vdc	94.5%			
350 mA		50...240 Vdc	94.5%	± 5%		
400 mA		50...240 Vdc	95%			
450 mA		50...222 Vdc	95%			
500 mA		50...200 Vdc	94.5%			
550 mA		50...182 Vdc	94.5%			
600 mA		50...167 Vdc	94%			
650 mA		50...154 Vdc	94%			
700 mA		50...143 Vdc	94%			
750 mA		50...133 Vdc	93.5%			
800 mA		50...125 Vdc	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	0.5 A @ 230 Vac & 0.5 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-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%
--	-------

### Output data

Output current tolerance	200...300 mA ± 15 mA at rated input voltage range
Output current tolerance	350...800 mA ± 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 <sup>2</sup> ; Output wire: 0.2...1.5 mm <sup>2</sup>
Wire stripping length	8...9 mm

### Degree of protection

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

### Operating data

Output current range	DIP control adjusts the current: 200...800 mA
Output voltage range	50...240 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance



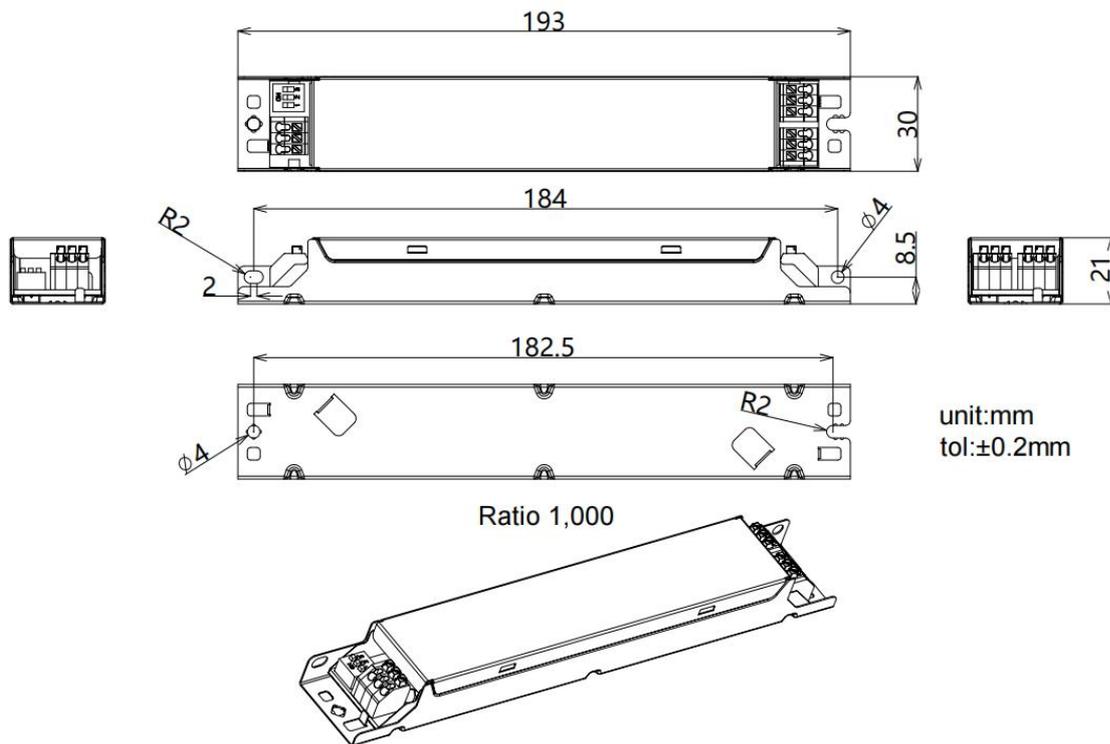
### Dimensions

#### Housing dimensions

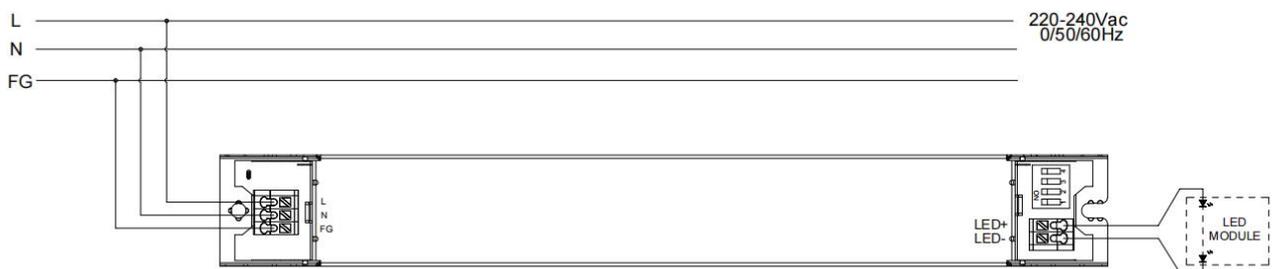
Length (L)	193 mm
Width (W)	30 mm
Height (H)	21 mm
Weight	0.114 kg

#### Packaging details

Packing units	60 pcs
Carton size	317 x 203 x 160 mm
Weight	7.5 kg

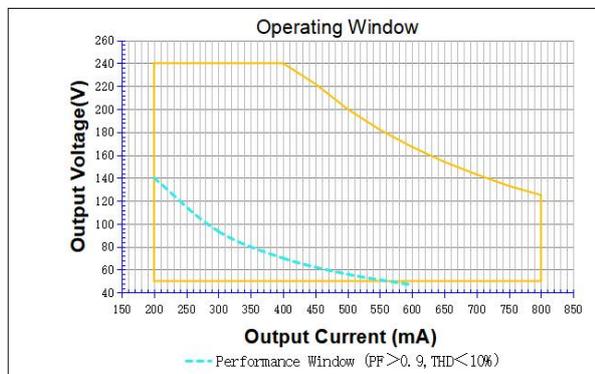
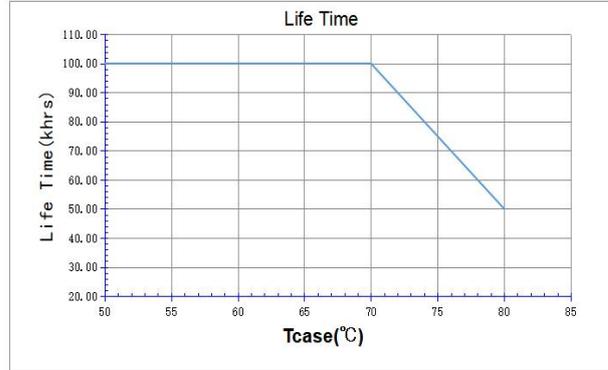
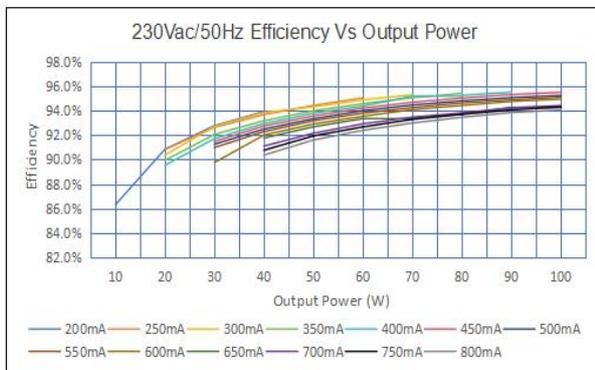
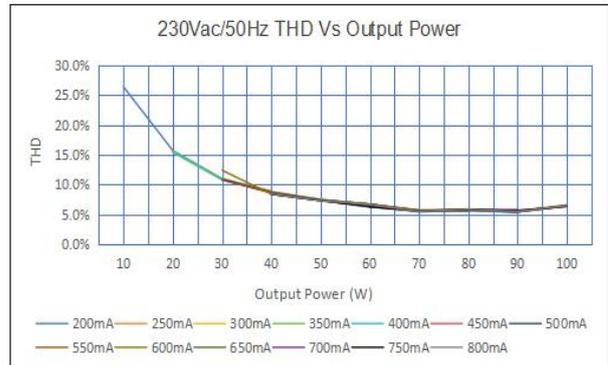
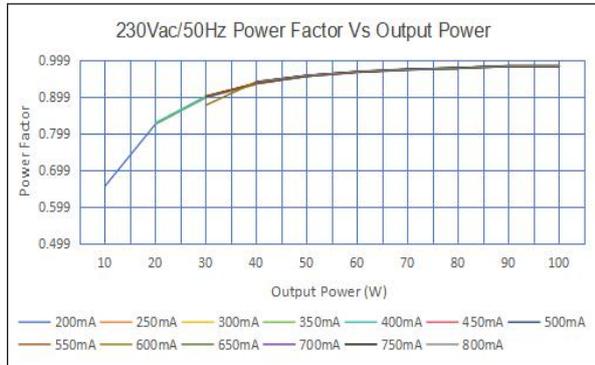


### Wiring diagram



- 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



ADJUSTABLE OUTPUT CURRENT WITH DIP-SWITCH						
Vout	Pout	Iout	1	2	3	4
50...240 Vdc	48 W	200 mA	OFF	OFF	OFF	OFF
50...240 Vdc	60 W	250 mA	ON	OFF	OFF	OFF
50...240 Vdc	72W	300 mA	OFF	ON	OFF	OFF
50...240 Vdc	84W	350 mA	ON	ON	OFF	OFF
50...240 Vdc	96 W	400 mA	OFF	OFF	ON	OFF
50...222 Vdc	100 W	450 mA	ON	OFF	ON	OFF
50...200 Vdc	100 W	500 mA	OFF	ON	ON	OFF
50...182 Vdc	100 W	550 mA	ON	ON	ON	OFF
50...167 Vdc	100 W	600 mA	OFF	OFF	OFF	ON
50...154 Vdc	100 W	650 mA	ON	OFF	OFF	ON
50...143 Vdc	100 W	700 mA	OFF	ON	OFF	ON
50...133 Vdc	100 W	750 mA	ON	ON	OFF	ON
50...125 Vdc	100 W	800 mA	OFF	OFF	ON	ON

It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 100 W + 5%.

#### Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
50...240 Vdc	200 mA	48
50...240 Vdc	250 mA	60
50...240 Vdc	300 mA	72
50...240 Vdc	350 mA	84
50...240 Vdc	400 mA	96
50...222 Vdc	450 mA	100
50...200 Vdc	500 mA	100
50...182 Vdc	550 mA	100
50...167 Vdc	600 mA	100
50...154 Vdc	650 mA	100
50...143 Vdc	700 mA	100
50...133 Vdc	750 mA	100
50...125 Vdc	800 mA	100