

Product features

- 0-10 V dimmable LED driver
- Output current 1600...2100 mA by DIP Switch adjust
- Max output power 80 W
- Flicker-free LED driver
- 12 V 0.1 A Auxiliary source
- Dimming range 2.5%...100%
- Class 2 output
- 5 years warranty

0/1-10V

Class P



Product specifications

110809 XZ-SA80B-520210-W-H-E

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor
1600 mA	120 Vac	30...50 Vdc	87.5%	± 5%	0.9
1800 mA		30...44 Vdc	87%		
2100 mA		30...38 Vdc			
1600 mA	347 Vac	30...50 Vdc	88.5%		0.87
1800 mA		30...44 Vdc	89%		0.89
2100 mA		30...38 Vdc			

Electrical specifications

Mains voltage supply

Rated input voltage range	120...347 Vac; performance range
Max. input voltage range	108...382 Vac; operational safety range
Rated frequency range	50/60 Hz
Performance/Operational safety	47...63 Hz
Max. input current	0.85 A @ 120 Vac

Protection against voltage peaks

Withstand voltage	I/p-O/p: 1.8 kVac, < 5 mA 60 sec, I/p-earth: 1.8 kVac, < 5 mA 60 sec I/p-DIM: 1.8 kVac, < 5 mA 60 sec, DIM-earth: 0.6 kVac, < 5 mA 60 sec O/p-earth: 0.6 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L/N-earth 2 kV per IEC 61000-4-5, 2.5 kV ring wave

Total harmonic distortion (THD)

At rated input voltage range @ full load	≤ 15%
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Output data

Output current tolerance	± 5% at rated input voltage performance range
No load output voltage	≤ 60 Vdc
Ripple output current	5% (ripple = peak/average total 100 Hz)

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Output PstLM	< 1 at full load @ rated input voltage
Output SVM	< 0.4 at full load @ rated input voltage
Inrush current	90 A at rated input voltage range @ full load
Turn-on Delay time	≤ 0.75 s at full load @ low rated input voltage, ≤ 0.5 s at full load @ high rated Input voltage

Protection functions output side

Output overvoltage protection	Hiccup mode. protection device will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.
Output short circuit protection	Hiccup mode. protection device will trigger when short circuit and will auto recover after the fault mode is removed.

Dimming operation and interface

Dimming mode	0-10 V
Dimming method	Amplitude dimming
Dimming current range	2.5%...100% (15...2100 mA)

Connection terminals

Main input wire	45° push in terminal
Main output wire	Input wire: 16...24 AWG; Output and Dimmer wire: 20...24 AWG
Wire stripping length	7...10 mm

Degree of protection

Protection rating	IP20
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Operating data

Output voltage range	30...52 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Supplementary instructions

- Meet FCC requirements, 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 paralleled.

Environmental specifications

Operating temperature	-20... +55°C
Storage temperature	-25... +85°C
Working humidity	10%...90%
Store humidity	5%...95%
Lifetime	at Tc 85°C: 50,000 hrs @ performance range (0.2% / 1,000 h failure rate)
Maximum Tc temperature	90°C

Safety & EMC compliance

UL	FCC	
UL8750	/	
CLASS P		
CSA C22.2 NO.250.13		
UL1310-CLASS 2		

Dimensions

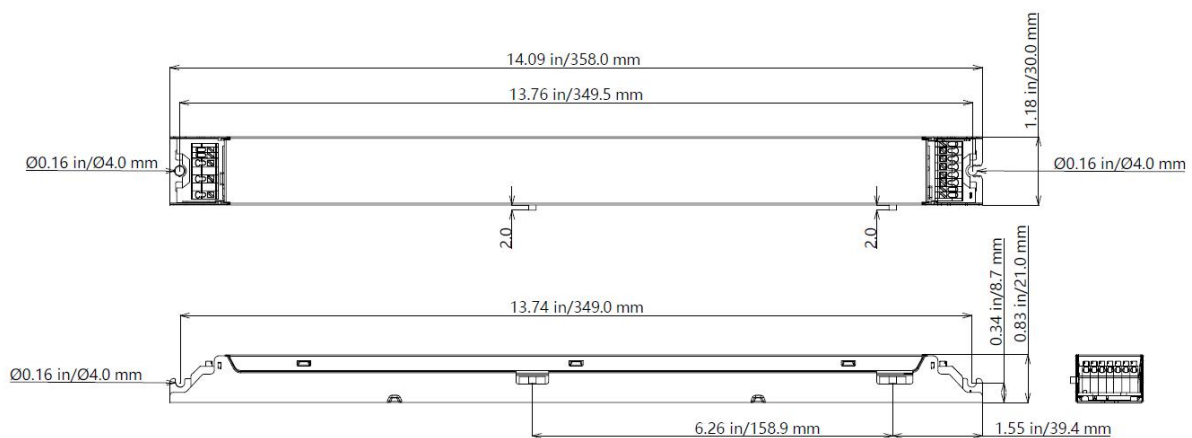
Housing dimensions

Length (L)	14.09 in (358.0 mm)
Width (W)	1.18 in (30.0 mm)
Height (H)	0.83 in (21.0 mm)

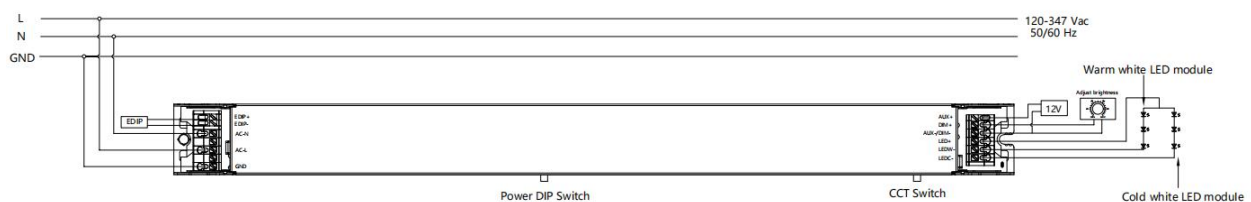
For all dimensions: values in in/mm; tolerances: ± 0.5 mm

Packaging details

Packing units	28 pcs
Carton size	15.10 x 6.30 x 6.30 in (383 x 160 x 160 mm)
Carton weight	8.64 kg
Product weight	0.28 kg

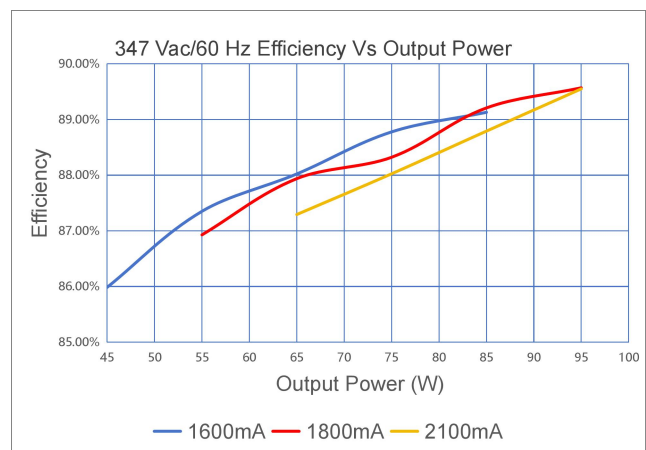
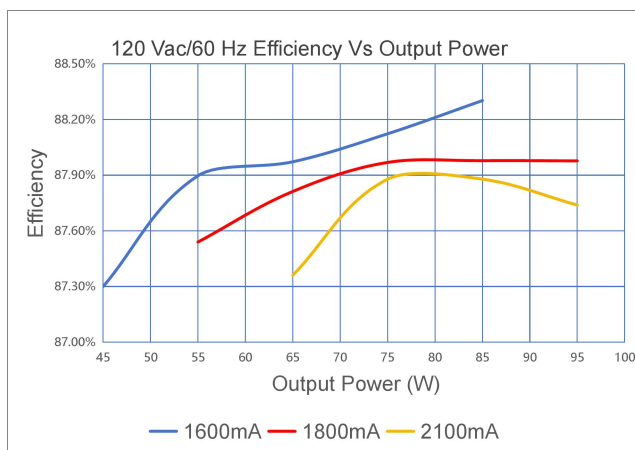
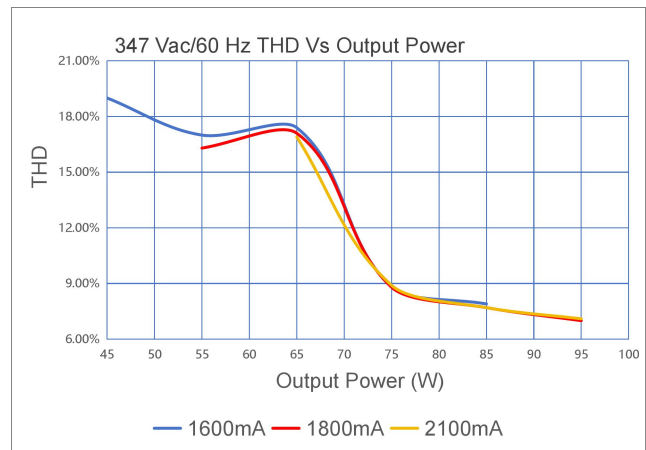
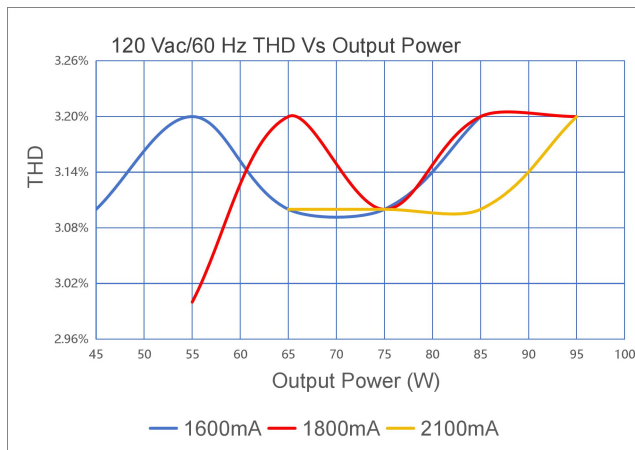
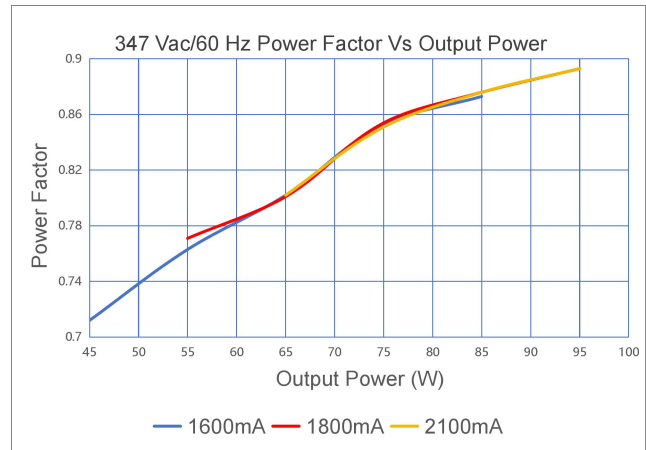
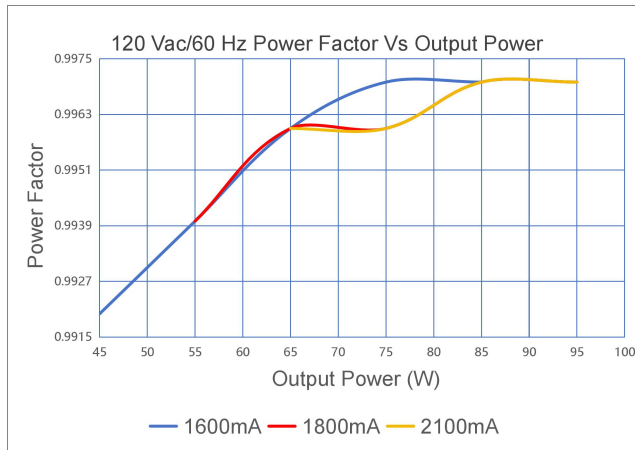


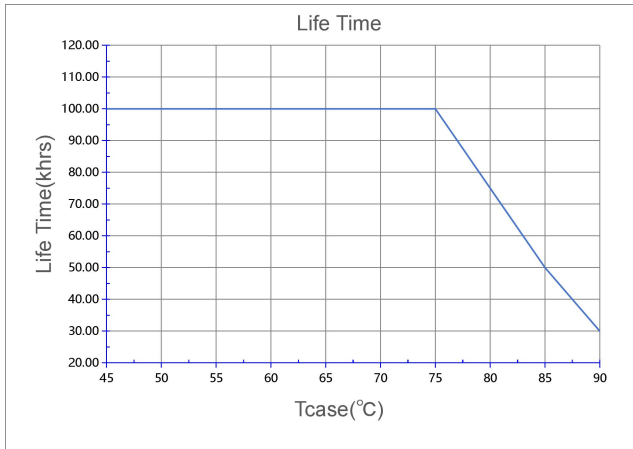
Wiring diagram



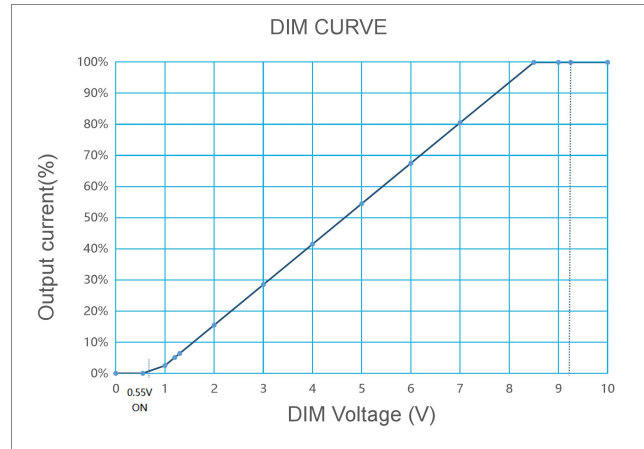
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.
- The product must be well grounded.
- When both the EDIP port and the adjustable power switch are present, it is recommended to set the power DIP switch to the maximum current position. At this time, the maximum current value of the EDIP port is the current value at which the power DIP switch is set.
- When both the CCT port and the adjustable color temperature switch are present, if you need to use the CCT port, the adjustable color temperature switch must be set to the leftmost position.

Technical information





at Tc 85°C (0.2% / 1,000 h failure rate)



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

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
50	1600 mA	80
44	1800 mA	79.2
38	2100 mA	79.8