

Product features

- Built-in 0-10 V adjustable power color temperature LED driver
- Output current 750 ... 1250 mA, adjustable by DIP switch
- EDIP port can be externally connected to a DIP switch
- Max. output power 50 W
- Flicker-free LED driver
- 12 V 0.1 A Auxiliary source
- Class 2 output

0/1-10V

Class P



Product specifications

110694 XZ-SA50B-450125-110075-5-P-E

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor
750 mA	120 VAC	30 ... 45 VDC	86 %	±5 %	0.9
850 mA			86 %		
1000 mA			86.5 %		
1100 mA		30 ... 40 VDC	86.5 %		
1250 mA			86.5 %		
750 mA	277 VAC	30 ... 45 VDC	86.5 %		
850 mA			86.5 %		
1000 mA			87 %		
1100 mA		30 ... 40 VDC	87 %		
1250 mA			87 %		

Electrical specifications

Mains voltage supply

Rated input voltage range	120 ... 277 VAC; performance range
Max. input voltage range	108 ... 305 VAC; operational safety range
Rated frequency range	50/60 Hz
Performance/Operational safety	47 ... 63 Hz
Max. input current	0.5 A @ 120 VAC

Protection against voltage peaks

Withstand voltage	I/p-O/p: 1.8 kVAC, < 5 mA 60 s; I/p-FG: 1.8 kVAC, < 5 mA 60 s I/p-DIM: 1.8 kVAC, < 5 mA 60 s; DIM-FG: 0.6 kVAC, < 5 mA 60 s O/p-FG: 0.6 kVAC, < 5 mA 60 s
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	≤ 10 %
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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 100 Hz)
Output PstLM	≤ 1 at full load @ rated input voltage
Output SVM	≤ 0.4 at full load @ rated input voltage
Inrush current	50 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

Input undervoltage protection	The input voltage is less than or equal to 80 ± 8 V
Input overvoltage protection	The input voltage is greater than or equal to 320 ± 15 V
Output overvoltage protection	Hiccup mode. The 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	No

Dimming operation

Dimming range	0.5 ... 100 %
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Connection terminals

Connection terminal type	45° push-in terminal
Wire cross-section	Input wire: 16 ... 24 AWG; Output and Dimmer wire: 20 ... 24 AWG
Wire stripping length	8 ... 9 mm

Degree of protection

Protection rating	IP20
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Operating data

Output voltage range	30 ... 45 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 connected in parallel.
- Test with electronic load meter, test with single color temperature lamp board, during aging, the color temperature DIP switch must be at the far right or far left position, and cannot be in the middle position. This model cannot perform short-circuit protection.

Environmental specifications

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

Safety & EMC compliance

UL	FCC	
UL8750	/	
Class P		
CSA C22.2 No. 250.13		
UL1310-Class 2		

Dimensions

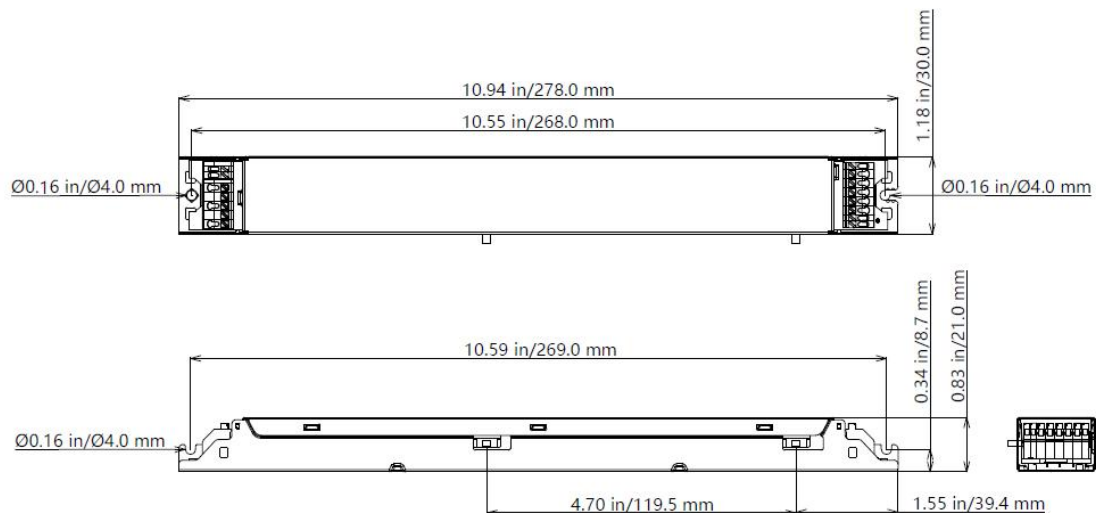
Housing dimensions

Length (L)	10.94 in (278.0 mm)
Width (W)	1.18 in (30.0 mm)
Height (H)	0.83 in (21.0 mm)

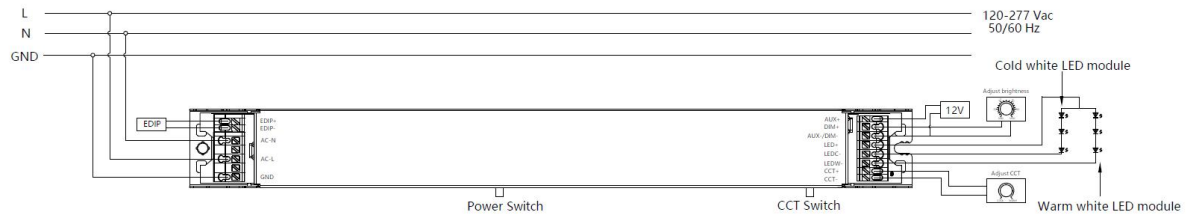
For all dimensions: values in in/mm; tolerances: ± 0.5 mm

Packaging details

Packing units	56 pcs
Carton size	14.76 x 12.8 x 7.28 in (375 x 325 x 185 mm)
Carton weight	12.28 kg
Product weight	0.202 kg

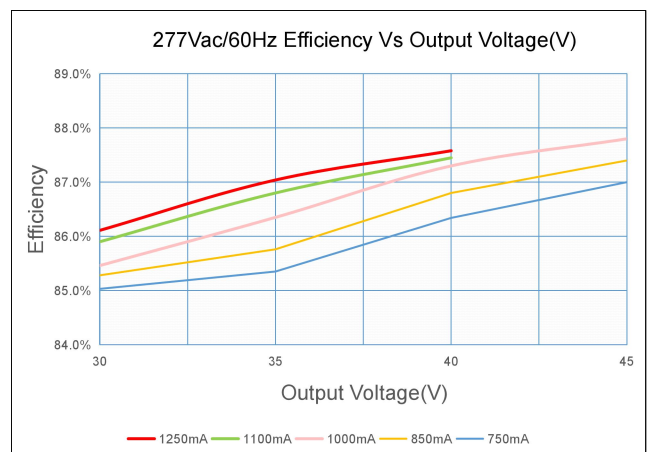
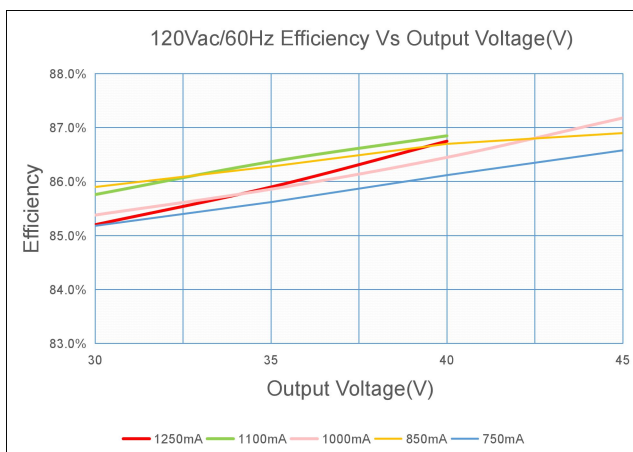
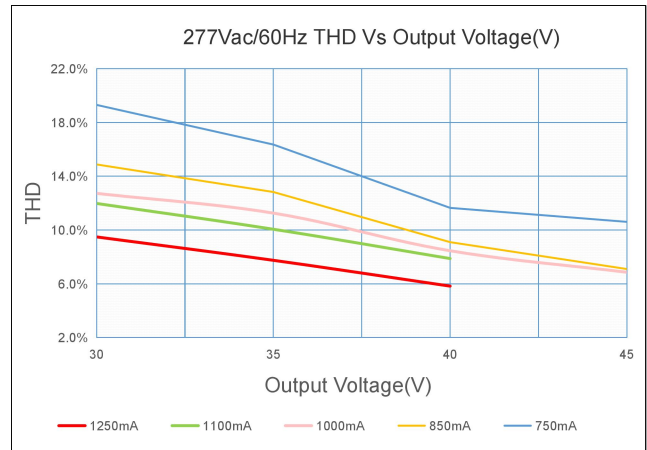
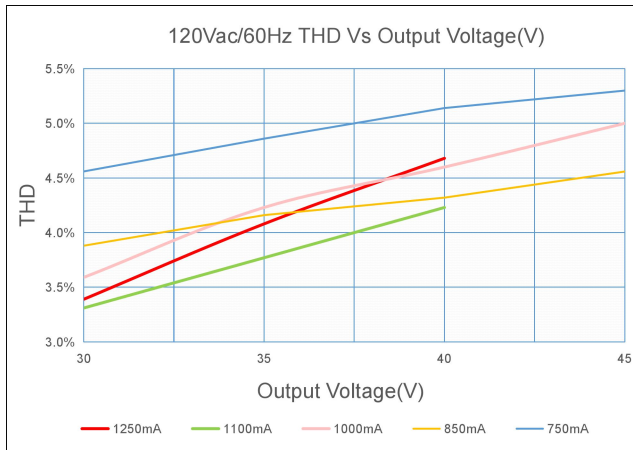
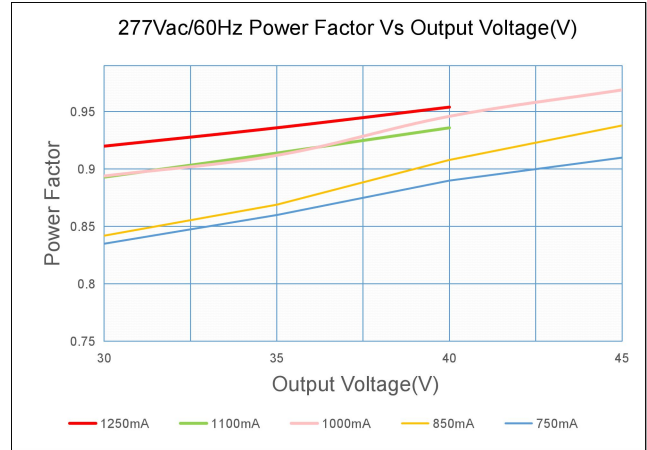
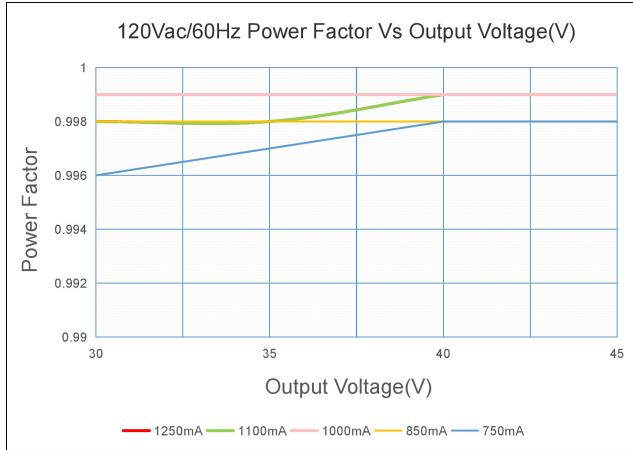


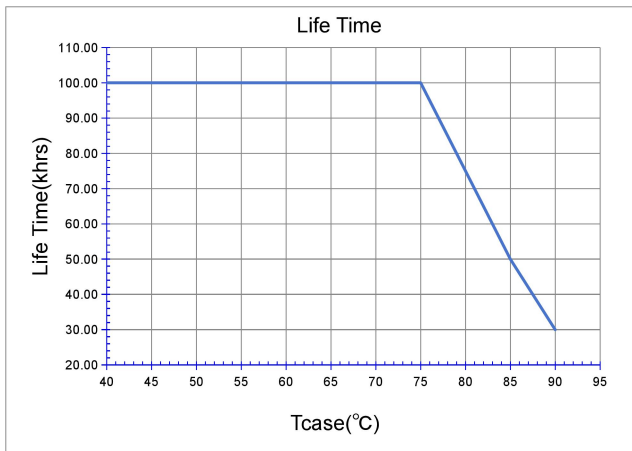
Wiring diagram



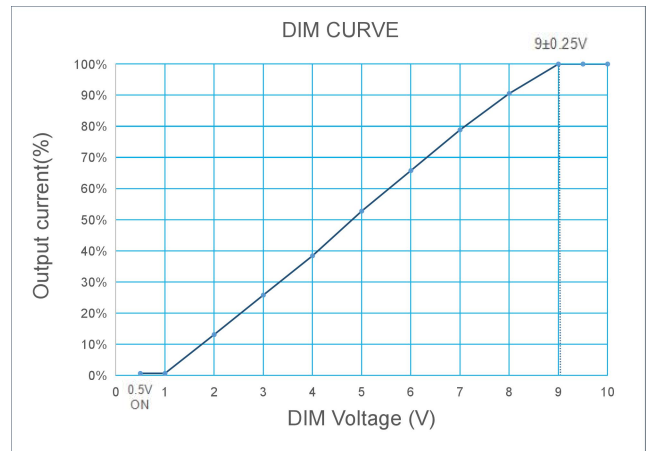
- All connections must be as short as possible to ensure good EMI performance.
- The recommended length of the EDIP port leads should be no more than 300 mm.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5 ... 10 cm is preferred).
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuit.
- The product must be well grounded.
- When the driver is equipped with both an EDIP interface and a power switch, the switch defines the maximum output current limit of the device. If the EDIP interface is intended to control the driver across its full adjustable current range, the power switch shall be set to the maximum current position. Any other power switch setting reduces the maximum current limit and consequently restricts the usable current range available via the EDIP interface to the value defined by the power switch.
- When the driver is equipped with both a CCT interface and an adjustable CCT switch, the CCT interface is enabled only when the CCT switch is set to the leftmost position labeled "CW"

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)
45	750 mA	33.75
45	850 mA	38.25
45	1,000 mA	45
40	1,100 mA	44
40	1,250 mA	50