XNASFF50-1200S-NFC-CAS

Art. 165803

Product features

- Small-sized constant current LED driver
- Support Bluetooth mesh
- Current adjustment via NFC
- Standby power < 0.5 W
- Lifetime 50,000 h
- Flicker-free, meets requirements of IEEE 1789-2015
- Complies with ENERGY STAR, DLC & CA Title 24 requirements
- For luminaires with protection class I



Product specifications

165803 XNASFF50-1200S-NFC-CAS

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor
600 … 1,200 mA	120 … 277 VAC	28 … 52 VDC	90 % (@ 277 VAC) 89 % (@ 120 VAC)	± 5 % (typical)	0.9 (Output Power > 29 W)

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
Standby power	< 0.5 W
Starting time	120 VAC: typ. 0.6 s; max. 0.75 s / 277 VAC: typ. 0.6 s; max. 0.75 s

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 1.6 kVac, < 5 mA 60 s, I/p-earth: 1.5 kVac, < 5 mA 60 s, O/p-earth: 0.5 kVac, < 5 mA 60 s
Mains surge immunity	L-N 1 kV, L/N-earth 2 kV 2.5 kV ring wave

Total harmonic distortion (THD)	
At rated input voltage range @ full load	≤ 20 %

Output data	
Output current tolerance	± 5 % at rated input voltage performance range (600 … 1,200 mA)
No load output voltage	≤ 60 VDC
Ripple output current	5 % (ripple = peak/average total 120 Hz); Compliant with IEEE 1789-2015

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Protection functions output side	
Overvoltage protection	The output voltage is less than or equal to 60 V
Overpower protection	The output power is less than or equal to 55 W
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	Bluetooth dimming (Casambi)
Dimming method	Amplitude dimming
Dimming current range	1 … 100 % (12 … 1,200 mA)

Wiring	
Main input wire	UL1332, 18 AWG, 300 V, 200 °C, black L, white N, wire exposed 5.9 + 0.39 in (152 + 10 mm), tinplating length 0.39 ± 0.04 in (10 ± 1 mm).
Main output wire	UL1332, 20 AWG, 300 V, 200 °C, brown LED+, blue LED-, wire exposed 5.9 + 0.39 in (152 + 10 mm), tinplating length 0.39 ± 0.04 in (10 ± 1 mm).

Degree of protection	
Protection rating	IP20

Operating data	
Output current range	600 … 1,200 mA (programmable)
Default output current	1,200 mA
Output voltage range	28 … 52 VDC
Noise level	< 20 dB(A) at full load @ 100 cm distance

Environmental specifications

Operating temperature	-20… +50 °C
Storage temperature	-25… +85 °C
Working humidity	10 … 90 %
Storage humidity	5 … 95 %
Lifetime	at Tc 75 °C: 50,000 h @ performance range (0.2 % / 1,000 h failure rate)
Maximum Tc temperature	90 °C

Safety & EMC compliance

UL (Cert. No.: E467833)
UL8750
CLASS P
CSA C22.2 NO. 250.13
CLASS 2

FCC
FCC 47 CFR Part 15 Subpart B
ICES-005 Issue 5

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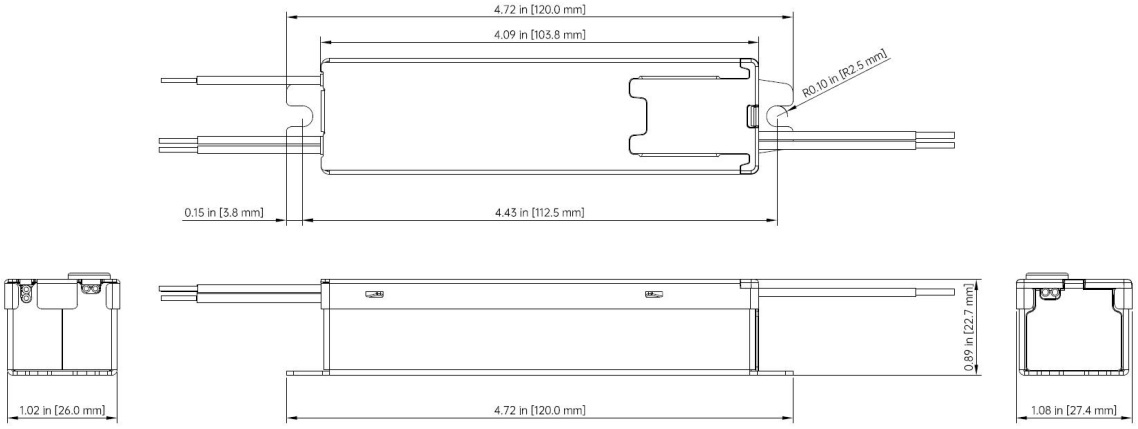
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Dimensions

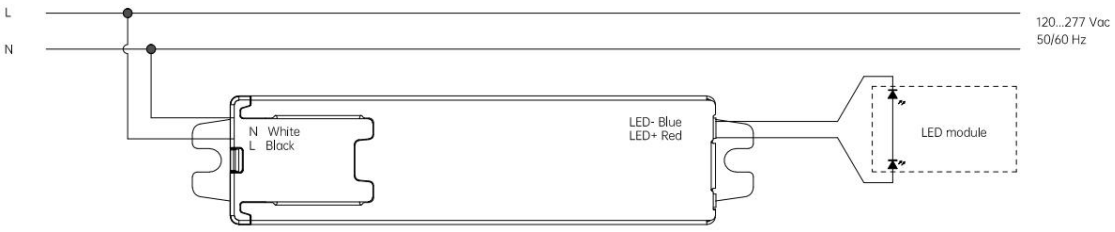
Housing dimensions	
Length (L)	4.72 in (120.0 mm)
Width (W)	1.08 in (27.4 mm)
Height (H)	0.89 in (22.65 mm)

For all dimensions: values in inches and millimeters; tolerances: ± 0.5 mm

Packaging details	
Packing units	56 pcs
Carton size	11.97 x 11.26 x 6.30 in (304 x 286 x 160 mm)
Carton weight	8.6 kg
Product weight	0.135 kg



Wiring diagram



- 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. All connections must be as short as possible to ensure good EMI performance.
- The recommended NFC communication distance：5 … 15 mm.
- 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 circuits.
- The product is grounded through the casing.

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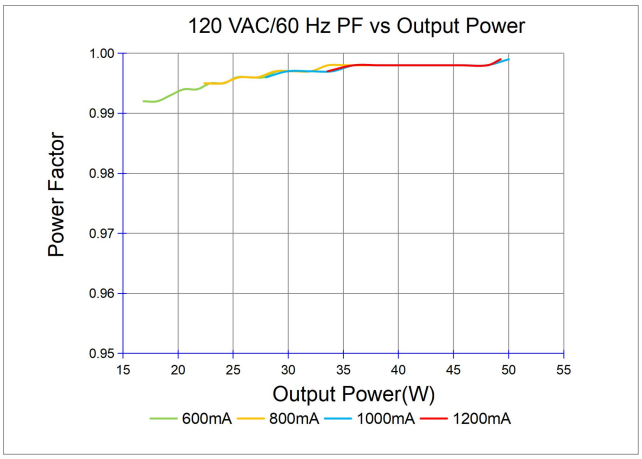
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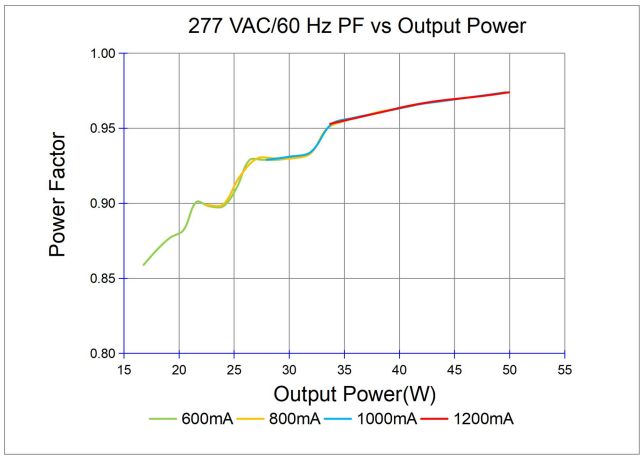
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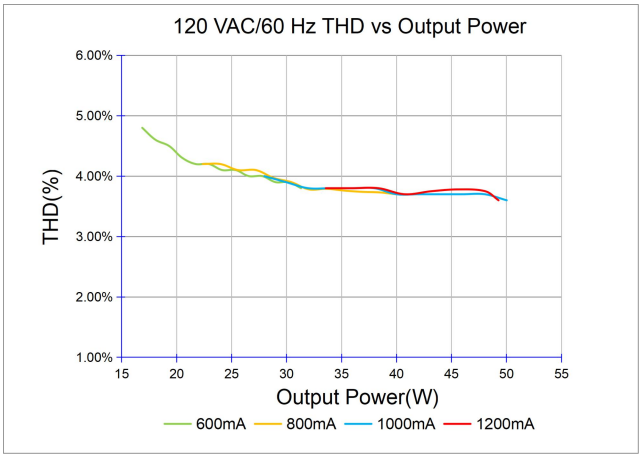
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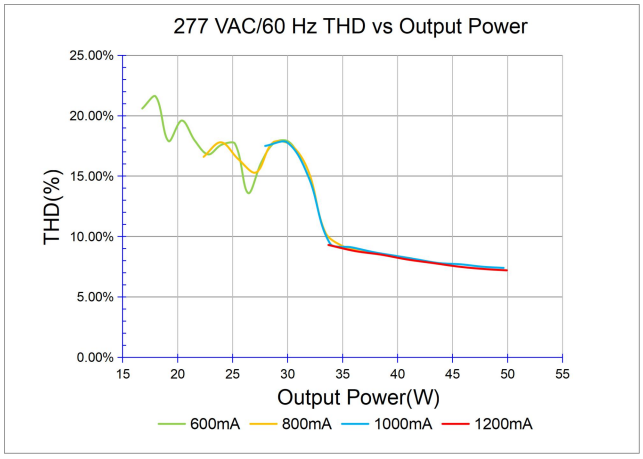
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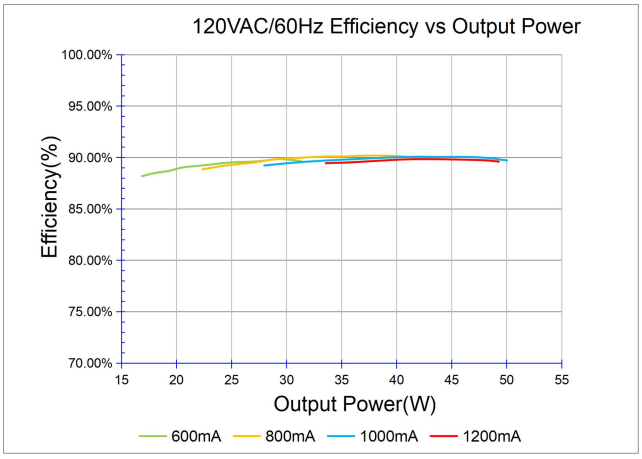
Technical information

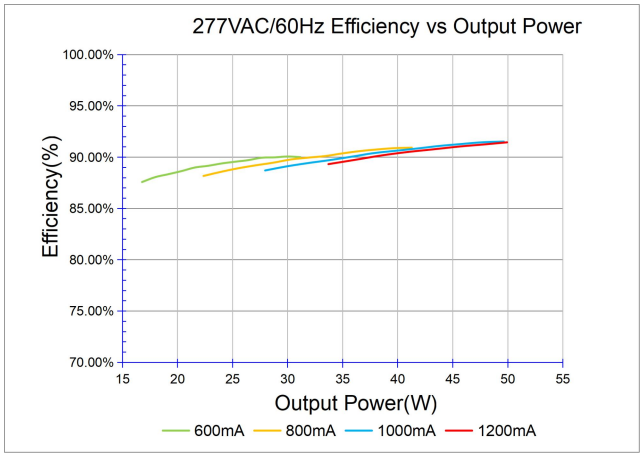












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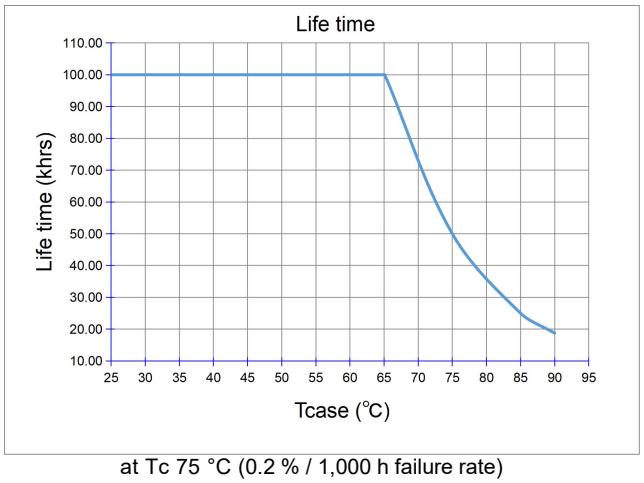
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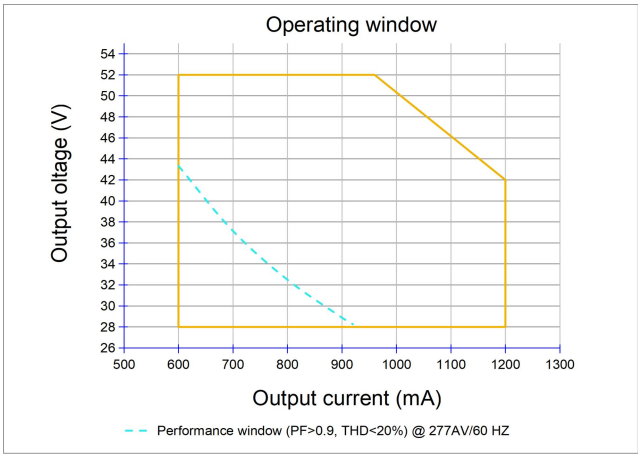
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at Tc 75 °C (0.2 % / 1,000 h failure rate)



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 50 W + 5 %.

Example of AOC settings

V LED (VDC)	AOC max	Pout (W)
42	1,200 mA	50.4
50	1,000 mA	50
52	961 mA	50

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