

XYSTON

50W SFF Compact Driver XNASFF50-1200S-NFC-CAS



Product Features

- UL Class P rating allows driver substitution without having to re-certify luminaires
- Built-in isolated adjustable power LED driver
- Current adjustment via NFC
- Supports Bluetooth mesh
- Output current 600-1200 mA
- Max. output power 50.4 W
- Flicker-free, dimming range 1%-100% (amplitude dimming)
- Current output default value 100%
- For luminaires with protection class I

CASAMBI **Class P**



Product Specifications

Operating Current	600-1200 mA
Input Voltage	120-277 Vac
Output Voltage	28-52 Vdc
Efficiency at Full Load	90% (Typical)
Current Accuracy	± 5%
Power Factor	0.9 (Output Power > 15W)
Lifetime	at Tc 75 °C: 50,000 hrs at performance range (0.2% / 1,000 h failure rate)

Environmental Specifications

Operating Temperature	-20 °C to 50 °C / -4 to 122°F
Storage Temperature	-25 °C to 85 °C / -13 to 185°F
Working Humidity	5% to 95%
Max. Tc Temperature	85 °C / 185°F

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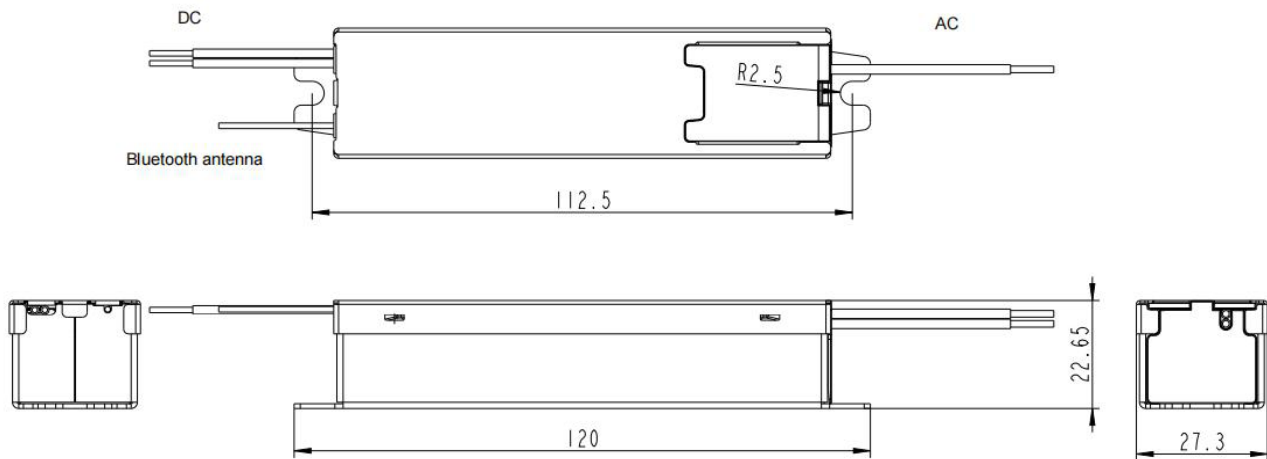
Product Dimensions

Housing Dimensions

Length	103.5mm / 4.07in
Width	27.3mm / 1.07in
Height	22.65mm / 0.89in
Weight	0.106 kg

Packaging Details

Packing Units	64
Carton Size	298 x 274 x 154mm 11.73" x 10.78" x 6.069"
Weight	7.78kg



- 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 to 10 cm is preferred)
- No secondary switches are allowed
- Incorrect wiring can damage the LED
- The wire must be well protected against short circuits

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Electrical Specifications

Mains Voltage Supply

Rated Input Voltage Range	120-277 Vac; Performance Range
Maximum Input Voltage Range	108-305 Vac; Operational Safety Range
Rated Frequency Range	50/60 Hz
Performance / Operational Safety	47-63 Hz
Maximum Input current	0.5 A @ 120 Vac

Protection Against Voltage Peaks

Withstand Voltage	I/p-O/p: 1.6 kVac, < 5 mA 60 sec, I/p-earth: 1.6 kVac, < 5 mA 60 sec, O/p-earth: 0.5 kVac, < 5 mA 60 sec
Mains Surge Immunity	L-N 1 kV, L/N-earth 2kV per IEC 61000-4-5, 2.5 kV ring wave

Total Harmonic Distortion (THD)

At Rated Input Voltage Range @ Full Load	≤ 20%
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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)

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 during a short circuit and will auto recover after the fault mode is removed.

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Dimming Operation and Interface

Dimming Mode	Bluetooth
Dimming Method	Amplitude Dimming
Dimming Current Range	1% to 100%

Wiring

Input Wire	18 AWG wire 150 ± 10mm
Output Wire	20 AWG wire 150 ± 10mm
Wire Stripping Length	8-9 mm (0.32-0.35in)

Degree of Protection

Protection Rating	IP20
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Operating Data

Output Current Range	600-1200 mA
Default Output Current	600 mA
Output Voltage Range	28-52Vdc
Noise Level	< 20 dB, at full load @ 100 cm distance

Supplementary Instructions

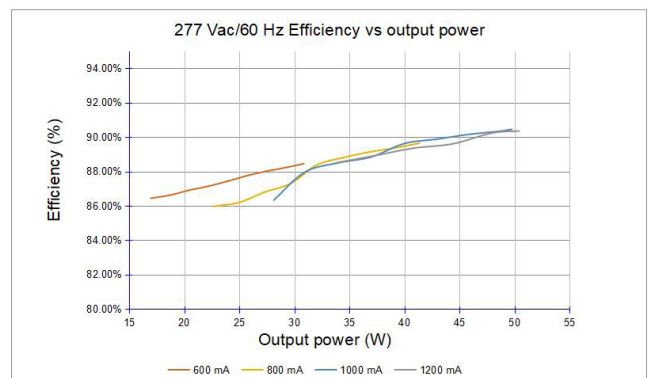
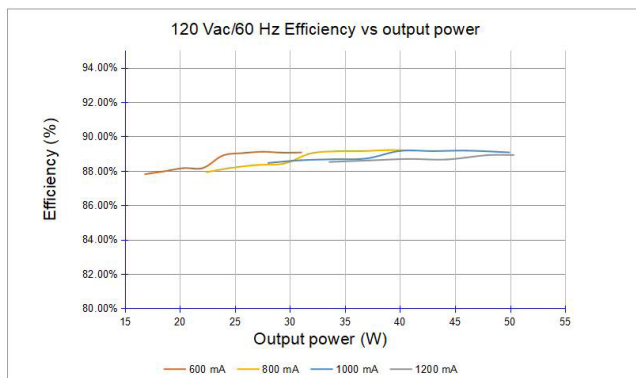
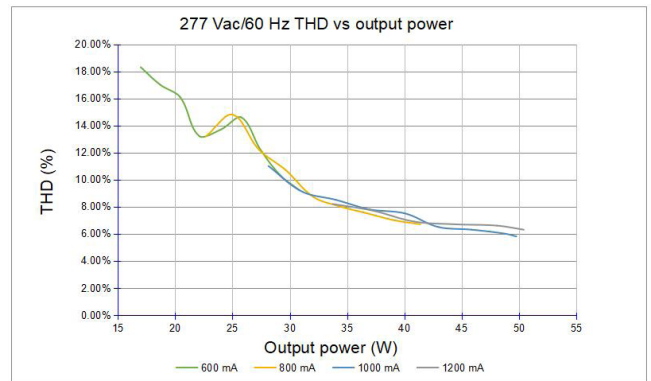
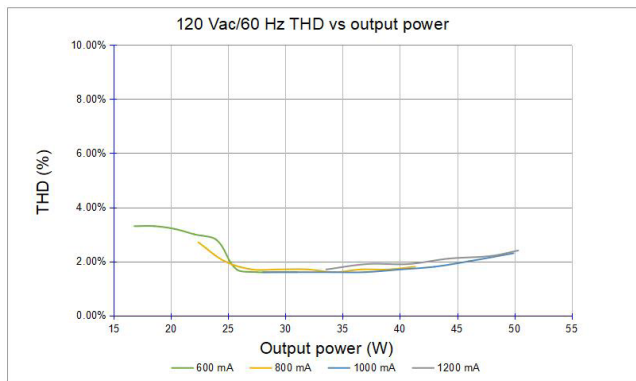
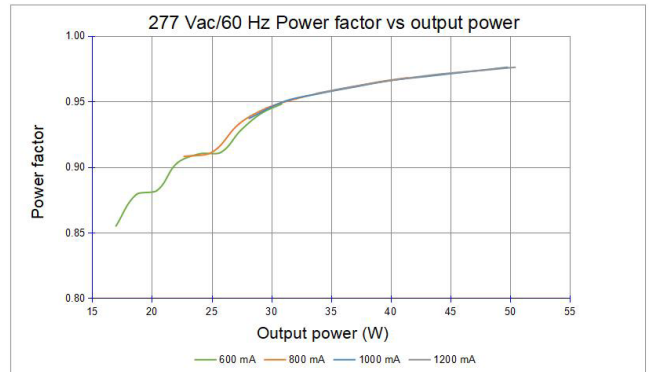
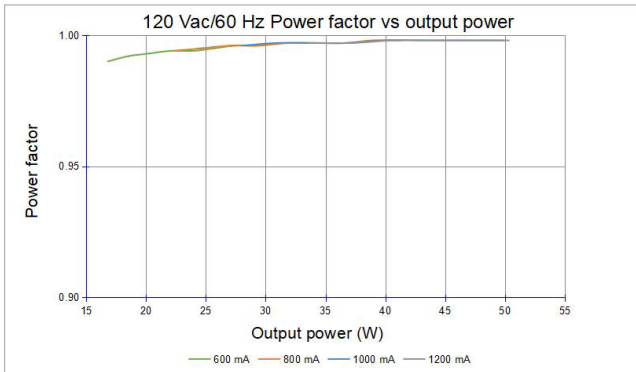
- The luminaire manufacturer is responsible for measuring and verifying the EMI compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
- The recommended NFC communication distance: 5-20 mm.

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Technical Information

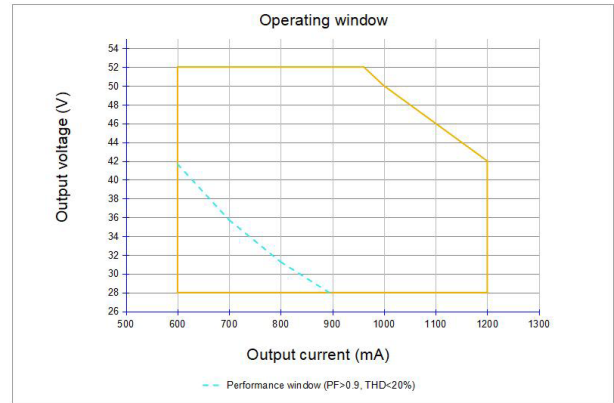
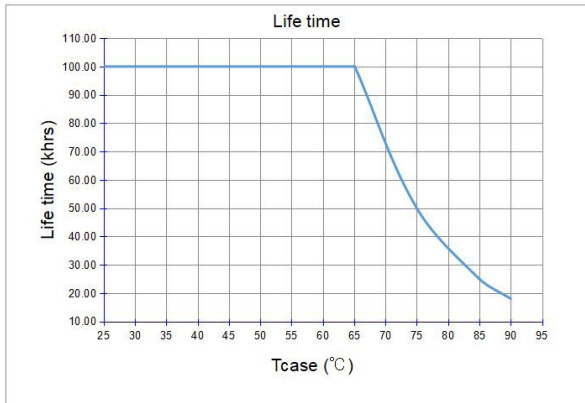


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Technical Information



It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 50.4 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
42	1200 mA	50.4
50	1008 mA	50.4
52	969 mA	50.4