

Product features

- Built-in isolated adjustable power LED driver
- Output current 600...1200 mA
- Max. output power 50 W
- Flicker-free
- Dimming range 0.1%...100%
- Current output default value 100%
- For luminaires with protection class I

0/1-10V

Class P c



Product specifications

168354 NAFSCB50-120277-600-1200 010V-W

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor
600...1200 mA	120...277 Vac	15...52 Vdc	90% (typical)	± 5%	0.9 (Output Power > 27 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

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	≤ 15%
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Output data

Output current tolerance	$\pm 5\%$ at rated input voltage performance 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

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	0/1...10 V (programmable)
Dimming method	Amplitude dimming
Dimming current range	0.1%...100% (1.2...1200 mA)

Wiring

Main input wire	UL1332, 18 AWG, 300 V, 200°C, black L, white N, wire exposed 5.9 ± 0.39 in (150 ± 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 (150 ± 10 mm), tinplating length 0.39 ± 0.04 in (10 ± 1 mm).
DALI control input wire	UL1332, 22 AWG, 300 V, 200°C, purple DIM+, pink DIM-, wire exposed 5.9 ± 0.39 in (150 ± 10 mm), tinplating length 0.39 ± 0.04 in (10 ± 1 mm).

Degree of protection

Protection rating	IP20
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Operating data

Output current range	600...1200 mA (programmable)
Default output current	1200 mA
Output voltage range	15...52 Vdc
Noise level	< 20 dB, at full load @ 100 cm distance

Circuit breaker / Inrush current

MCB loading quantity	Inrush current Ipeak: 21.6 A			Inrush current Twidh: 133 μ s	
	MCB type	B10	C10	B16	C16
	Units	16	16	26	26

Dimensions

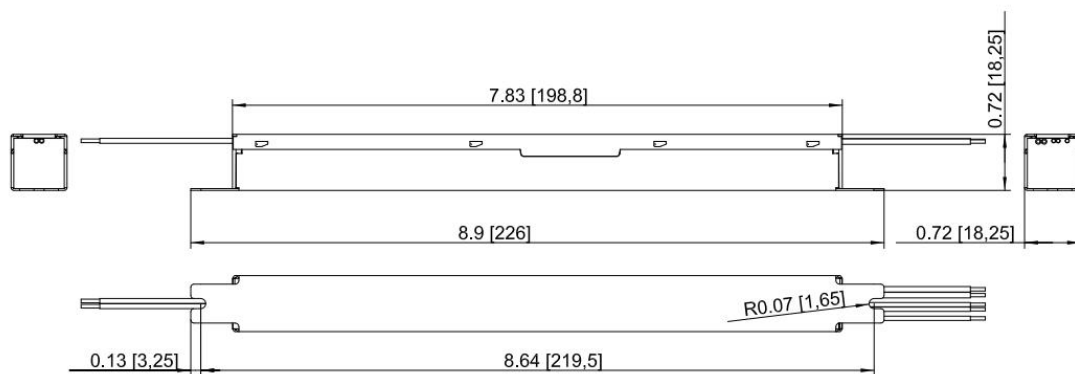
Housing dimensions

Length (L)	8.90 in (226 mm)
Width (W)	0.72 in (18.25 mm)
Height (H)	0.72 in (18.25 mm)

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

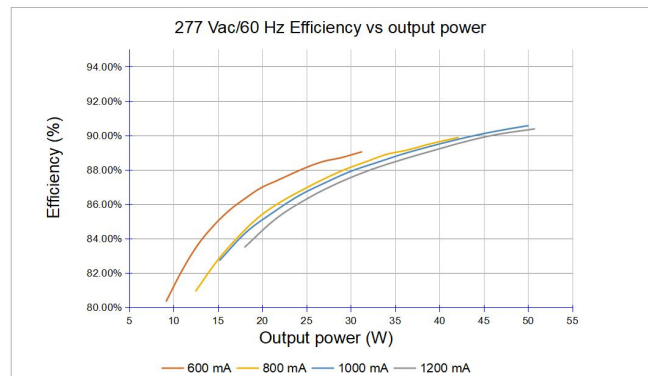
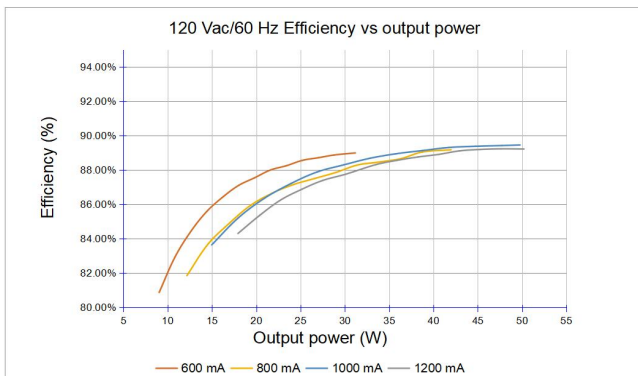
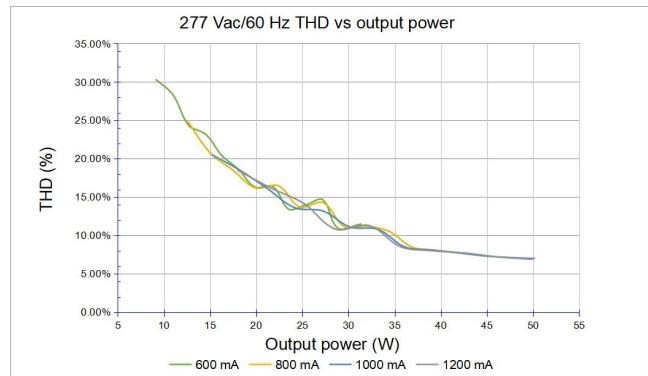
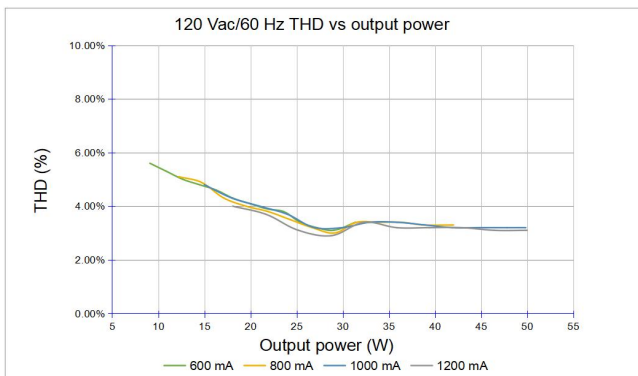
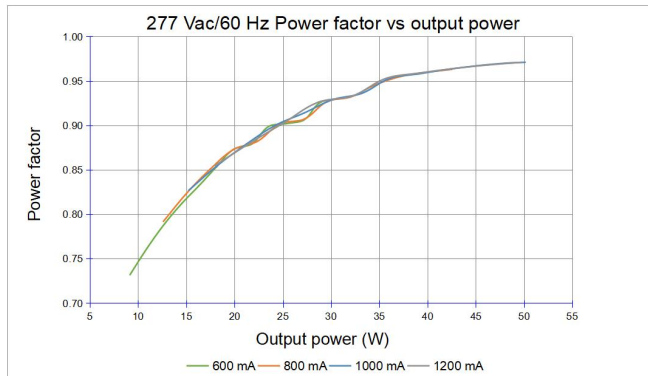
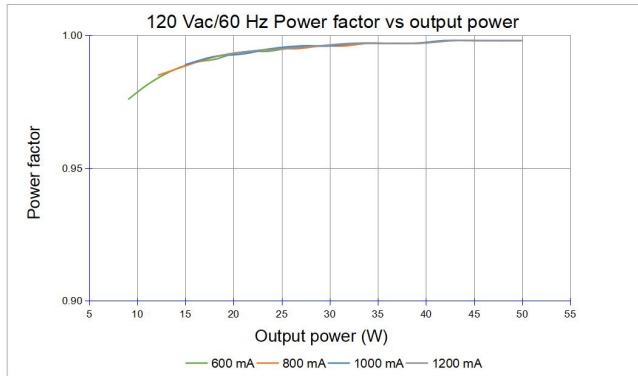
Packaging details

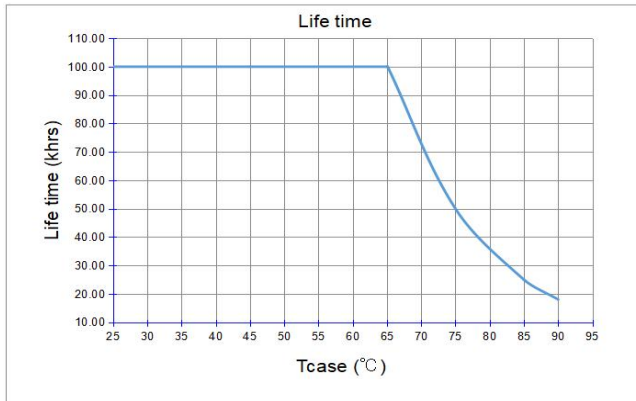
Packing units	50 pcs
Carton size	12.60 x 9.72 x 6.81 in (320 x 247 x 173 mm)
Carton weight	7.7 kg
Product weight	0.135 kg



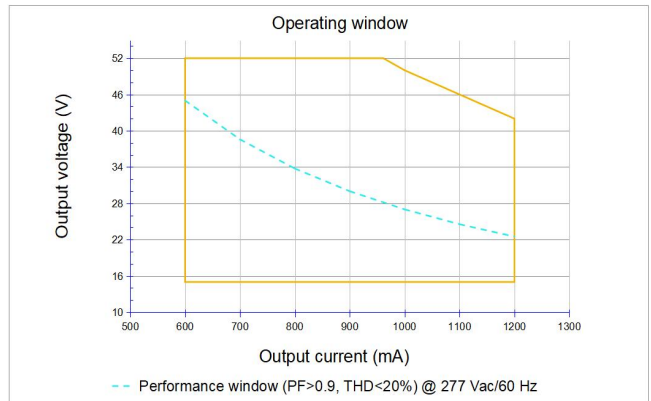
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected against short circuits.

Technical information





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	1200 mA	50.4
50	1000 mA	50
52	961 mA	50