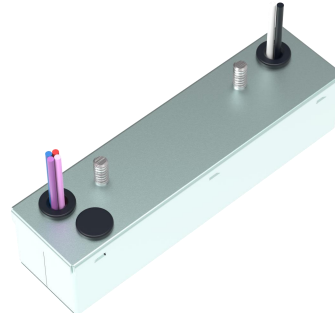


Product features

- Built-in isolated adjustable power LED driver
- Output current 350...1050 mA
- Max. output power 30 W
- Flicker-free
- Dimming range 1%...100%
- Current output default value 1050 mA
- Programmable
- For luminaires with protection class I

ELV  TRIAC  0/1-10V Class P 



Product specifications

680006 NASFF30-120277-1050T-TRIMODE-WB

Output current	Input voltage	Output voltage	Efficiency @ full load	Current accuracy	Power factor
350...1050 mA	120...277 Vac	6...50 Vdc	89% (@ 50V 600 mA)	± 5%	0.9 (Output Power > 20 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	0.32 A @ 120 Vac

Protection against voltage peaks

Withstand voltage	I/p-O/p: 1.6 kVac, < 5 mA 60 s, I/p-earth: 1.6 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 2kV 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	$\pm 5\%$ 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 31.5 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), Triac/ELV
Dimming method	Hybrid Dimming
Dimming current range	1%...100% (10.5...1050 mA Triac/ELV) 0.1%...100% (1.05...1050 mA 0/1-10 V)

Wiring

Main input wire	UL1332, 18 AWG, 300 V, 200°C, black L, white N, wire exposed 7.08 ± 0.39 in (180 ± 10 mm), tinplating length 0.39 ± 0.04 in (10 ± 1 mm).
Main output wire	UL1332, 20 AWG, 300 V, 200°C, red LED+, blue LED-, wire exposed 7.08 ± 0.39 in (180 ± 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 7.08 ± 0.39 in (180 ± 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	350...1050 mA (programmable)
Default output current	1050 mA
Output voltage range	6...50 Vdc
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 driver can be programmed by inserting one end of the programmer into the drive and the other end into the USB port of the computer. The driver does not need to be powered on during the programming process. When ordering drivers, make sure you order the appropriate programmer.

Environmental specifications

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

Safety & EMC compliance

/	/	
/	/	

Preliminary Version

Dimensions

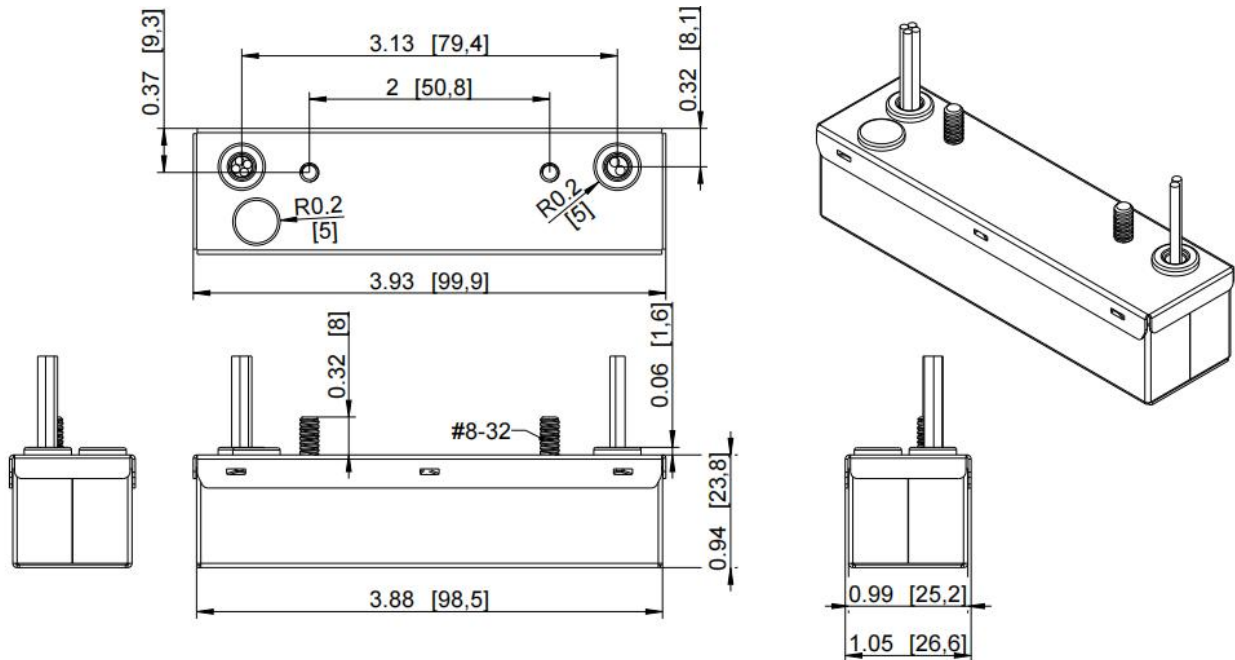
Housing dimensions

Length (L)	3.9 in (98.5 mm)
Width (W)	1.05 in (26.6 mm)
Height (H)	0.9 in (23.8 mm)

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

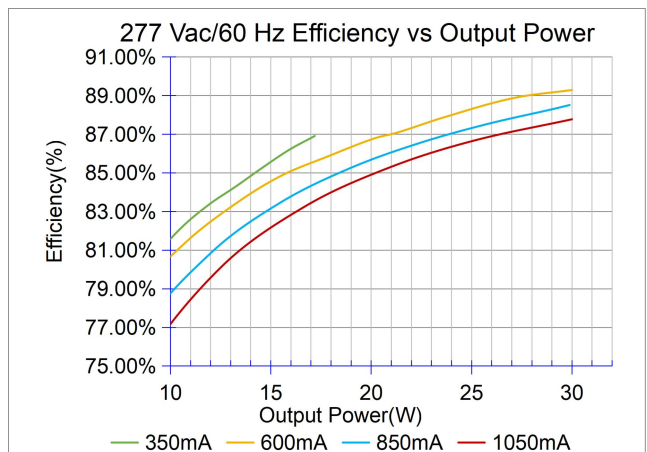
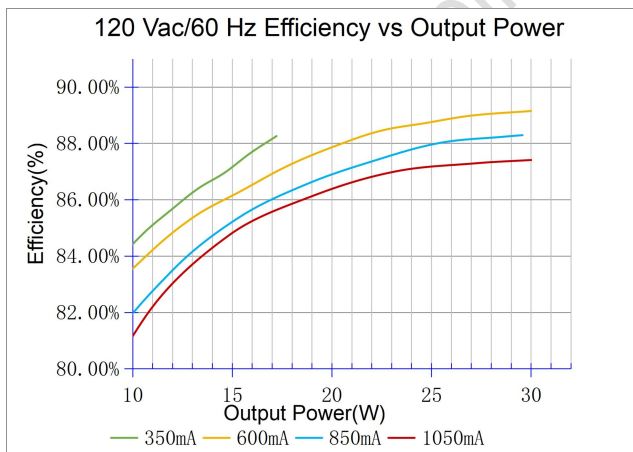
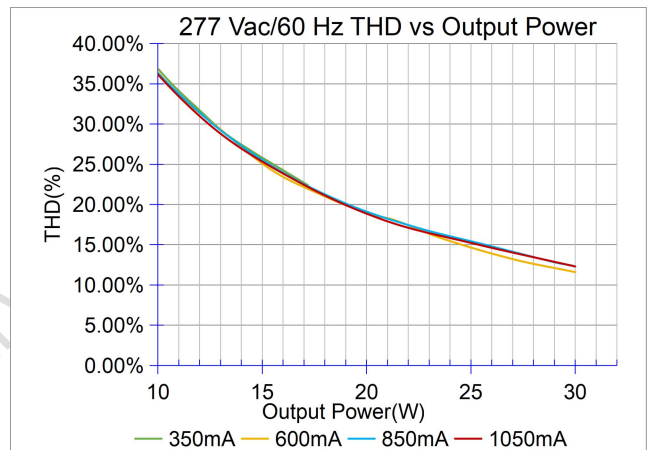
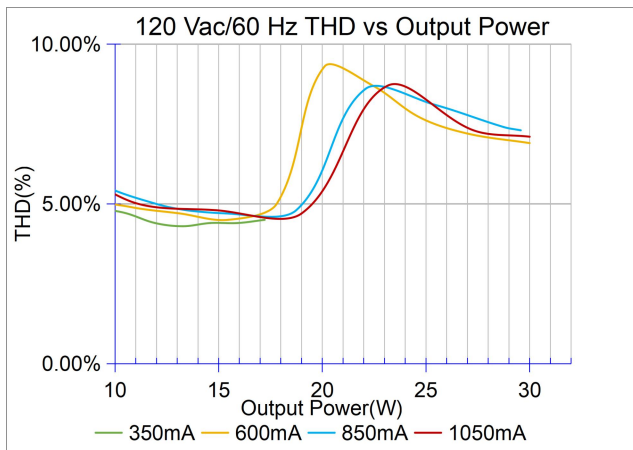
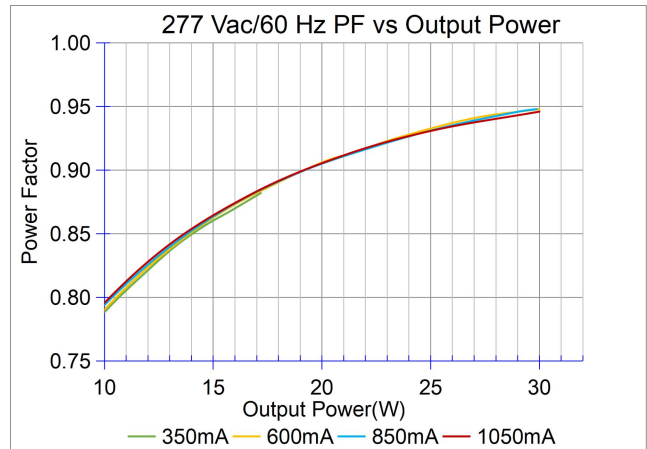
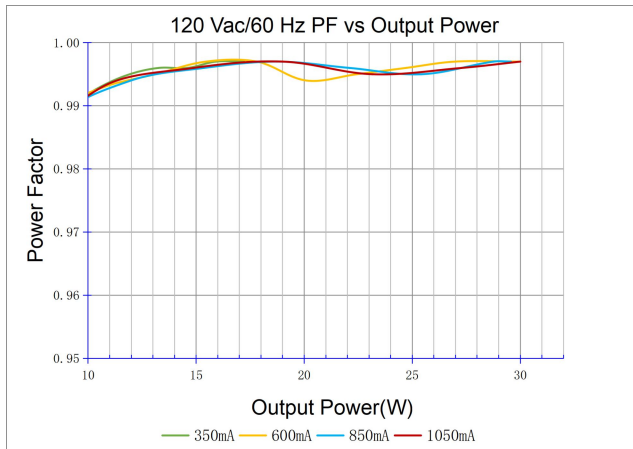
Packaging details

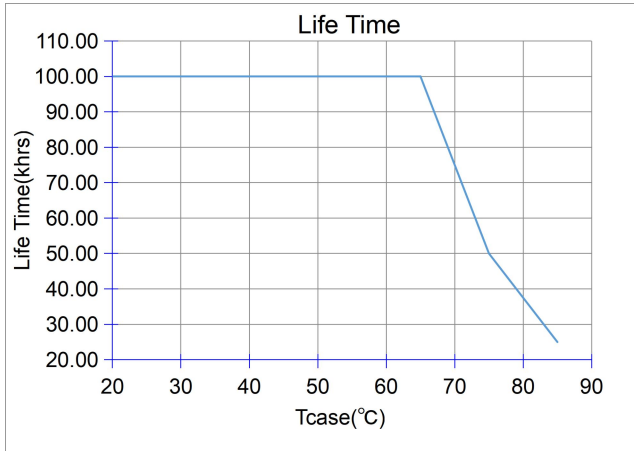
Packing units	56 pcs
Carton size	11.97 x 11.26 x 6.3 in (304 x 286 x 160 mm)
Carton weight	8.6 kg
Product weight	0.135 kg



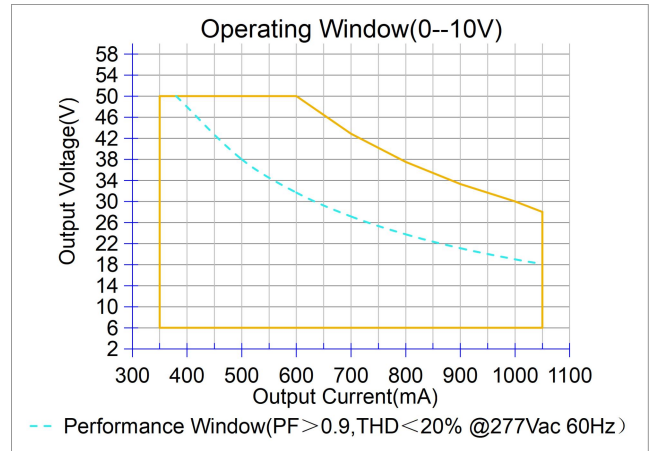
- All connections must be as short as possible to ensure good EMI performance.
- The luminaire wire should keep a certain distance from the LED power supply and other wires (5...10 cm is preferred).
- No secondary switches are allowed.
- Incorrect wiring can damage the LED.
- The wire must be well protected 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 30 W + 5%.

Example of AOC settings

V LED (Vdc)	AOC max	Pout (W)
28.6	1050 mA	30
50	600 mA	30
50	350 mA	17.5