

### Electrical Specifications

#### Input

- Voltage: 120-250V AC 50-60Hz  
120-250V DC
- UL approved: 120-277V AC, 50-60Hz
- Current, max: 0.7A
- 0-10V current draw: max 2mA



#### Output

- Power: 50W max
- Voltage: 55V max
- Current range: 200 - 1,050 mA (configurable) in 1mA steps
- Current: +/- 5% accuracy



#### General

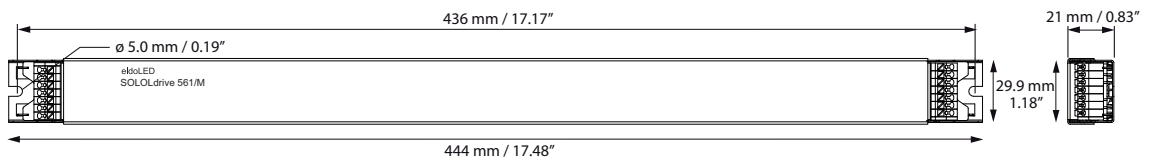
- Standby power: < 0.5W
- Inrush current: negligible, 30mA<sup>2</sup>s @ 277V
- Surge protection: 1kV differential mode surge, 2kV common mode surge
- Efficiency: 89% at full load, ≥ 85% above 67% load
- Power factor: > 0.9
- THD: <20% between 67% and 100% load



### Dimensions and weight

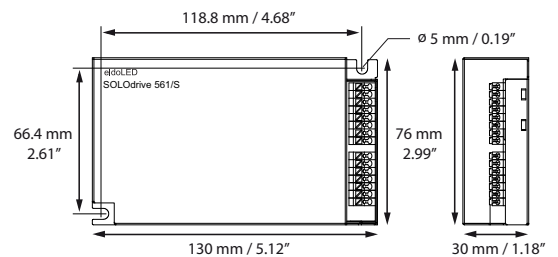
#### SOLOdrive 561/M

Weight: 360 g,  
12.7 oz



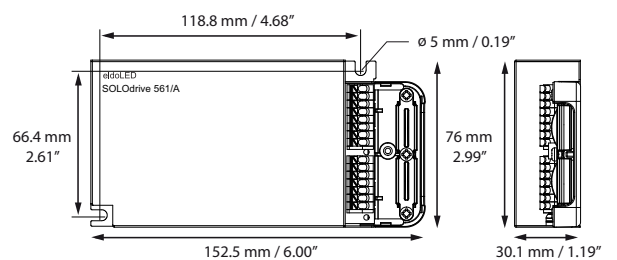
#### SOLOdrive 561/S

Weight: 350 g, 12.35 oz



#### SOLOdrive 561/A

Weight: 372 g, 13.12 oz



**Wiring data**

- Wire type: solid or stranded copper
- Wire strip length: 9mm, 0.35 in.
- Wire core cross section: 0.5 - 1.5 mm<sup>2</sup>, AWG 20 - 16

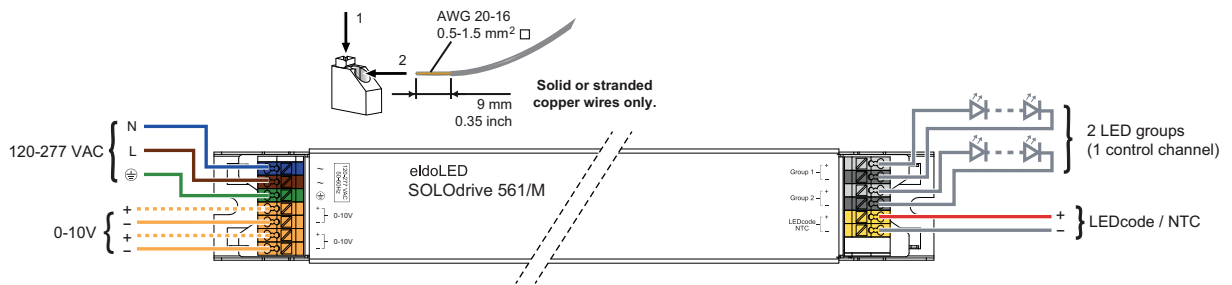
- Maximum LED wiring length:

AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

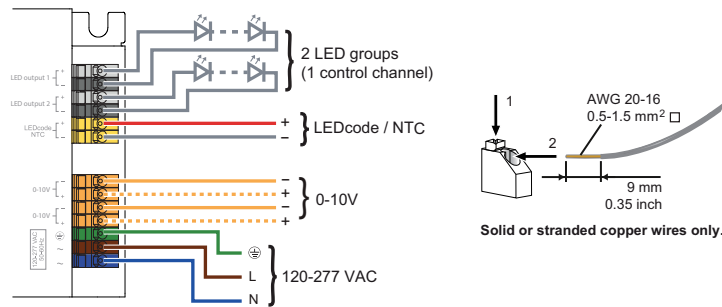
⚠ Please observe voltage drop over long cable lengths

⚠ Longer cable lengths increase EMI susceptibility.

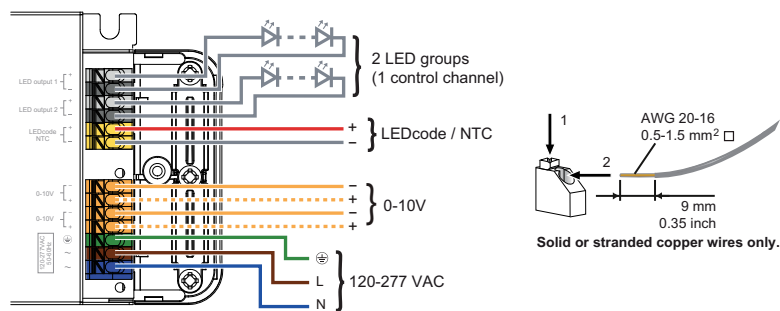
**SOLOdrive 561/M**

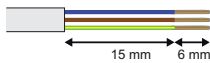


**SOLOdrive 561/S**



**SOLOdrive 561/A**



In Europe, use a H03V 0.75mm<sup>2</sup> power cable for 561/A and apply following strip lengths: 

⚠ **WARNING:** Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.

⚠ **CAUTION:** The device may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

⚠ **CAUTION:** Pay attention when connecting the LED groups: polarity reversal results in no light output and often damages the LEDs.

Other information

Thermal

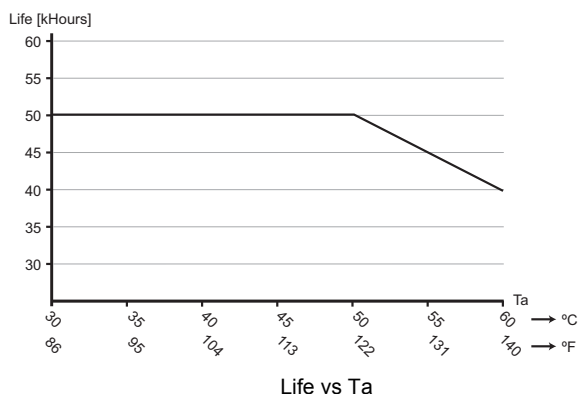
- Ta range: -20 °C ... +50 °C / -4 °F ... +122 °F
- Tc max: 85 °C / 185 °F
- Tc lifetime: 78 °C / 172 °F
- LED temperature feedback using 47kΩ NTC thermistor.  
Recommended thermistors by Vishay:
  - NTCS0805E4473JXT (SMD version)
  - 238164063473 (leaded version)
  - NTCASCWE3473J (screw version)

Certifications

- EN 61347-1 / -2-7 / -2-13, EN 62384, EN 55015, EN 55022, EN 61000-3-2, EN 61547, EN 60929 Annex E
- CE
- ENEC by DEKRA
- EL: EN 61347-2-7
- UL: Recognized Component (file no E333135), according to UL1310, UL8750. US: Class 2 output. Canada: Non-Class 2 output.
- FCC: Title 47CFR Part 15 Class B



Lifetime data



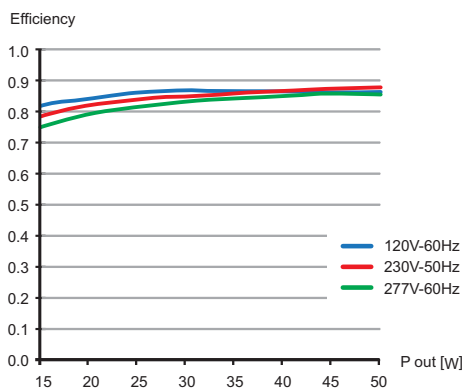
- Life expectancy of 50K hours at Ta of lower or equal to 50 °C / 122 °F
- MTBF: 480,000 hours

All measurements have been carried out at maximum load in free air without heat sink.

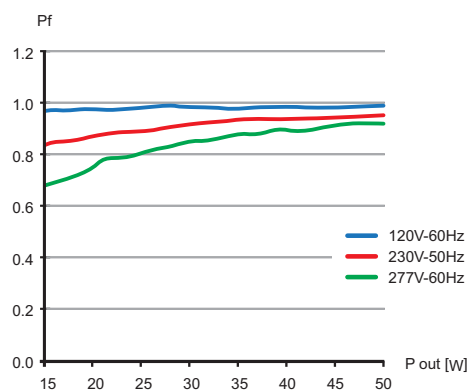
All lifetime-related figures are the result of simulations. Actual lifetime tests are ongoing.

The following efficiency, power factor and THD diagrams are the result of measurements of a worst case scenario: the LED outputs were stressed at full load (23.8V and 1,050mA).

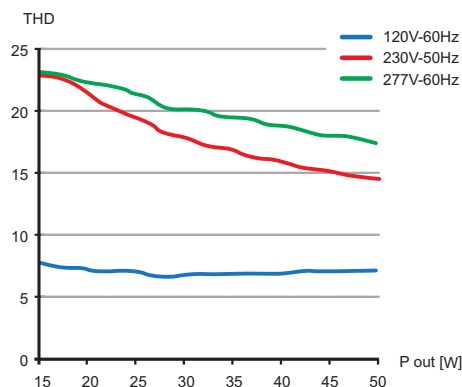
Efficiency data



Power factor data



Total Harmonic Distortion data



## Notes

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### Other documentation and support

Visit [www.eldoled.com/ACsupport](http://www.eldoled.com/ACsupport) for further documentation such as quick start guide, wiring diagram, tech sheet and 3D IGES files.

### Warranty

eldoLED represents and warrants that for a period of 3 (three) years, as of the date of invoice, Products materially meet the specifications and specifically agreed upon quality, both as stated in the applicable datasheet and/or written design-in specifications, or as stated in writing otherwise by eldoLED, provided that these specifications are explicitly designated by eldoLED as "warranted specifications".

For the complete warranty text, visit [www.eldoled.com/terms](http://www.eldoled.com/terms).

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