

### Electrical Specifications

#### Input

- Voltage: 220 - 250 VAC, 50-60Hz  
UL approved: 120 - 277 VAC, 50-60Hz
- Current, max: 1.05A at 120V/60Hz, 0.5A at 230V/50Hz, 0.45A at 277V/60Hz



#### Output

- Load per output:  
 RGBW @ 12V: 2.08A per output / RGBW @ 24V: 1A per output  
 RGB @ 12V: 2.76A per output / RGB @ 24V: 1.33A per output  
 ⚠ For UL Class 2: RGBW @ 12V: 1.25A per output  
 RGB @ 12V: 1.66A per output  
 Absolute max for US: 5A common anode



- Power, max: 100W

#### General

- Standby power: < 0.5W
- Inrush current: 35A 240µs at 120V/60Hz, 67A 240µs at 230V/50Hz, 75A 240µs at 277V/60Hz
- Surge protection: 3kV (L to N), 4kV (L/N to GND)
- Power factor: > 0.94
- THD at 100% load, max: < 10%
- DMX / RDM: USITT DMX512A and ANSI E1.20 (explore & address)
- DALI: IEC 62386-207



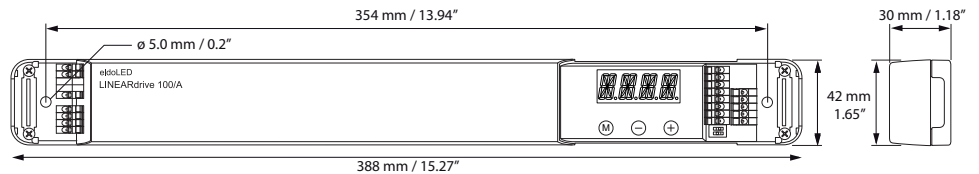
#### Use cases for 12V and 24V LED strips

	12V RGB strip 3 LED outputs, per output:	24V RGB strip 3 LED outputs, per output:	12V RGB + white strip 4 LED outputs per output:	24V RGB + white strip 4 LED outputs, per output:	2 12V cool white + 2 warm white strips 4 LED outputs per output:
Power, max: 100W	33W	33W	25W	25W	25W
Voltage, 12V or 24V	12V	24V	12V	24V	12V
Current, max	2.77A	1.33A	2A	1A	2A

### Dimensions and weight

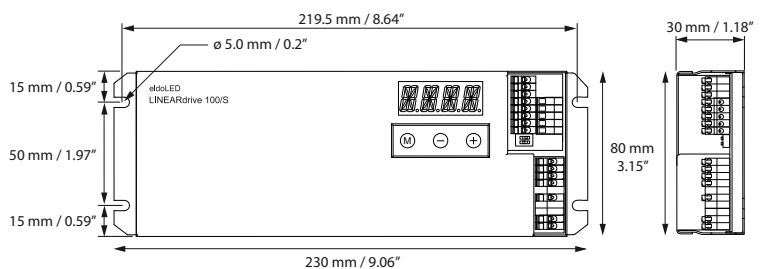
#### LINEARdrive 100/A

Weight: 890 g, 31.4 oz



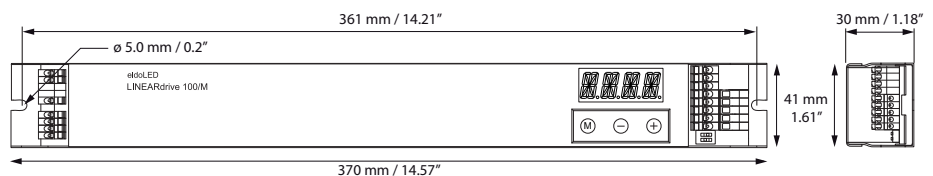
#### LINEARdrive 100/S

Weight: 895 g, 31.6 oz



#### LINEARdrive 100/M

Weight: 770 g, 27.2 oz



**Wiring data**

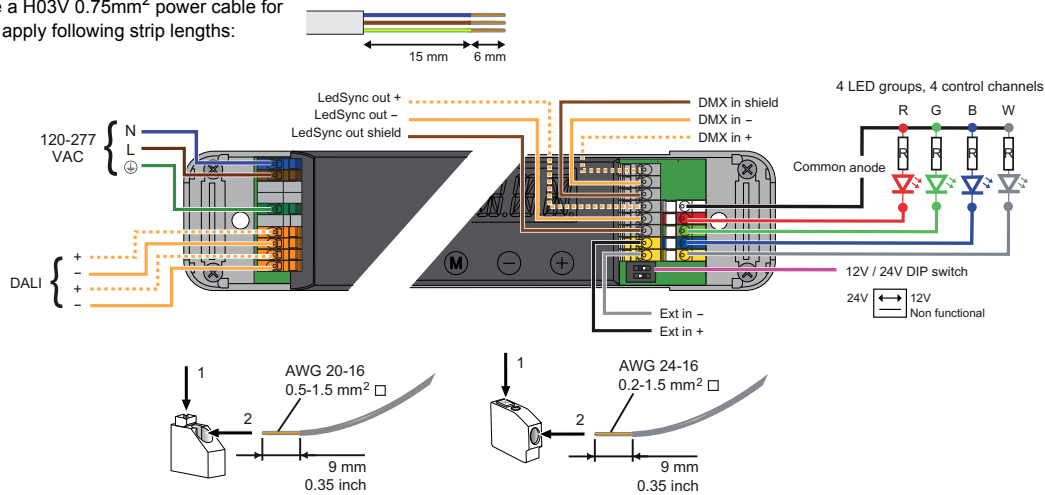
- Wire type: solid or stranded copper
- Wire strip length: 9mm, 0.35 in.
- Wire core cross section: 0.5 - 1.5 mm<sup>2</sup>, AWG 20 - 16

- Maximum LED wiring length:

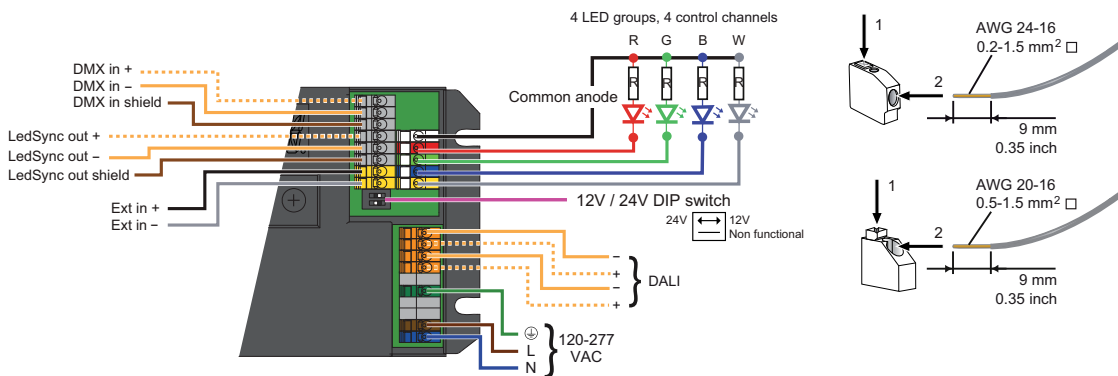
AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

**LINEARdrive 100/A**

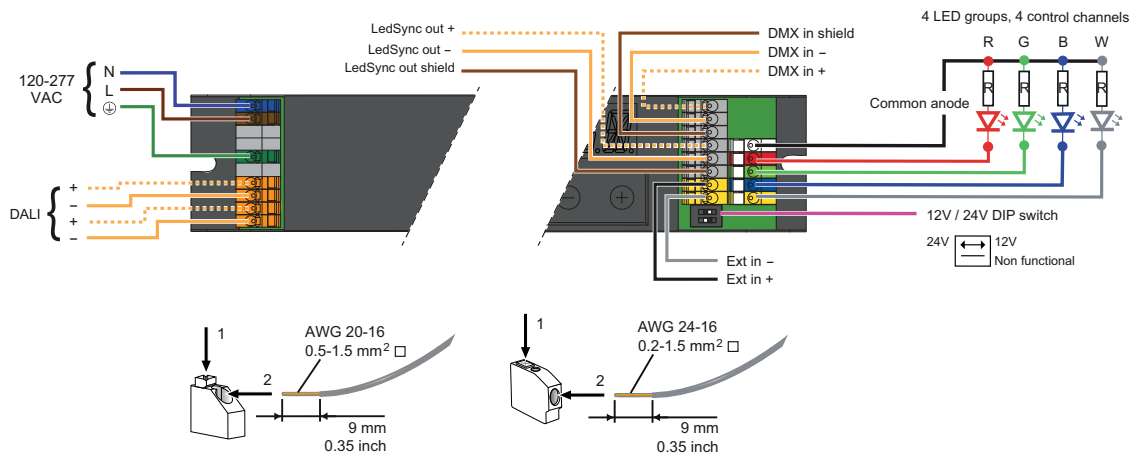
In Europe, use a H03V 0.75mm<sup>2</sup> power cable for the 100/A and apply following strip lengths:



**LINEARdrive 100/S**



**LINEARdrive 100/M**



**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**

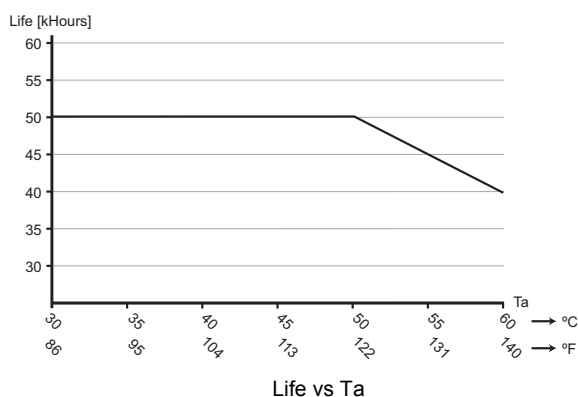
- Ta range: -40 °C ... +50 °C / -40 °F ... +122 °F
- Tc max: LINEARdrive 100/A 90 °C / 194 °F  
LINEARdrive 100/M 85 °C / 185 °F  
LINEARdrive 100/S 85 °C / 185 °F
- Typical self-rise of 30 °C / 83 °F at maximum load in free air without heat sink

**Certifications**

- IEC 61347-1, IEC 61347-2-13, IEC 62384 + A1, EN 55015 + A1, EN 55022 + A1, IEC 61000-3-2, IEC 61547, IEC 62386-207
- CE
- ENEC by VDE
- UL: Recognized Component for US and Canada (file no. E333135), according to UL1310, UL8750. Class 2 output for US and Canada.
- Class A sound rating
- FCC: Title 47CFR Part 15 Class B
- The wiring inside electrical enclosures shall comply with the 600V/105 °C or higher.



**Lifetime data**

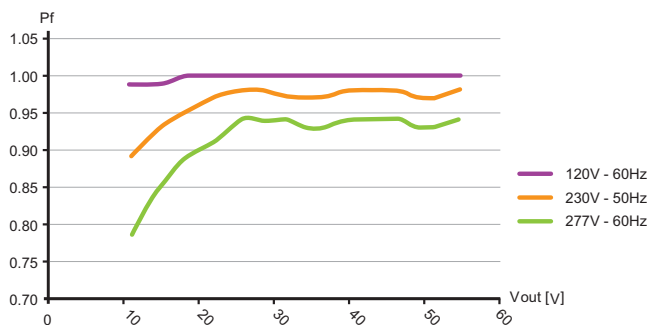


- Life expectancy of 50K hours at Ta of lower or equal to 50 °C / 122 °F
- MTBF: 480,000 hours

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.

**Power factor data**



Power factor vs Vout at Ta 25 °C / 77 °F

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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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**Notes**

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