

Tech sheet DUALdrive 1060

ACSeries

Electrical Specifications

Input

Voltage: 120 - 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

• Power: 100W max

· Voltage: 60V max, 57V typ

• Current range: 200 - 1,050 mA (configurable)

• Current: +/- 5% accuracy

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)

• Efficiency: 90% at full load, ≥ 87% above 50W output

• Power factor: > 0.94

• THD at 100% load, max: <10%

• DALI: IEC 62386-207







Use cases

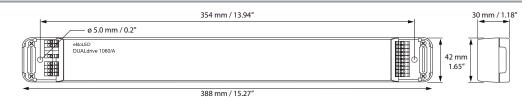
	4 LED outputs, per output:	4, 3, 2 or 1 LED output per output:			
Power, max: 100W	25 W	25W	25W	25W	≤ 60W *
Voltage (Vf), max: 57V	57V	50V	35.7V	23.8V	≤ 57V
Current range: 200 - 1,050mA	400mA	500mA	700mA	1,050mA	≤ 1,050mA **

^{*} Total power output driver: 100W max

Dimensions and weight

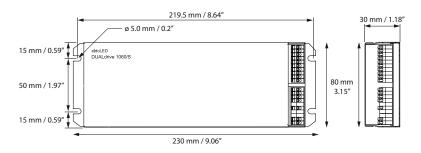
DUALdrive 1060/A

Weight: 710 g, 25 oz



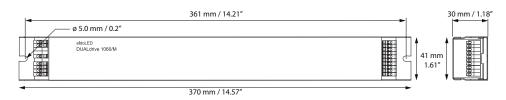
DUALdrive 1060/S

Weight: 880 g, 31 oz



DUALdrive 1060/M

Weight: 830 g, 29.3 oz



^{**} LED output current is configurable

Wiring data

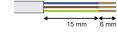
- · Wire type: solid or stranded copper
- · Wire strip length: 9mm, 0.35 in.
- Wire core cross section:
 0.5 1.5 mm², AWG 20 16

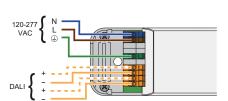
· Maximum LED wiring length:

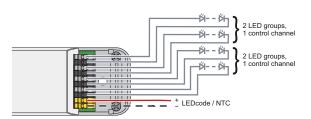
AWG value	20	19	18	17	16
Distance (m)	14	18	22	28	36
Distance (ft)	46	59	72	92	118

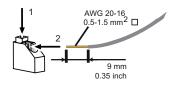
DUALdrive 1060/A

In Europe, use a H03V 0.75mm² power cable for the 1060/A and apply following strip lengths:

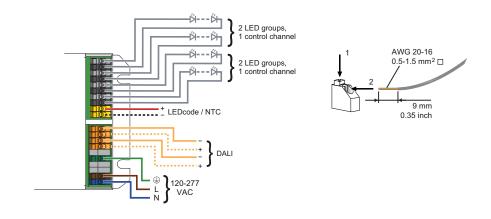




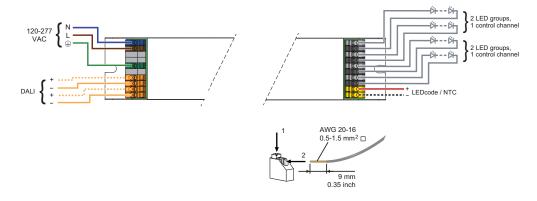




DUALdrive 1060/S



DUALdrive 1060/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

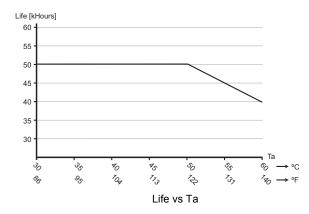
- Ta range: -40 °C ... +50 °C / -40 °F ... +122 °F
- Tc max: DUALdrive 1060/A 90 °C / 194 °F DUALdrive 1060/M 85 °C / 185 °F DUALdrive 1060/S 83 °C / 181 °F
- Typical self-rise of 30 °C / 83 °F at maximum load in free air without heat sink
- LED temperature feedback using 47kΩ NTC thermistor.
 Recommended thermistors by Vishay:
 - NTCS0805E4473JXT (SMD version)
 - 238164063473 (leaded version)
 - NTCASCWE3473J (screw version)

Certifications

- IEC 61347-1, IEC 61347-2-13, IEC 62384, EN 55015, EN 55022, IEC 61000-3-2, IEC 61547, IEC 62386-101/102/207
- CE
- ENEC by VDE
- UL: Recognized Component for US and Canada (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

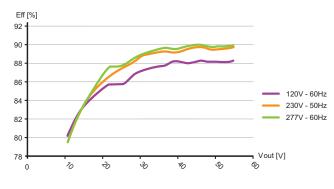


- Life expectancy of 50K hours at Ta of lower or equal to 50 $^{\circ}$ C / 122 $^{\circ}$ F
- MTBF: 480,000 hours

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.

Efficiency data



Efficiency vs Vout at Ta 25 °C / 77 °F

USA

North America

eldoLED America, Inc.

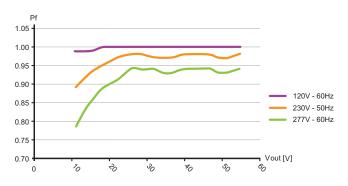
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1762 Technology Drive #226

Power factor data



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

Europe, Rest of World

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E: info@eldoled.com

Sales support US/Canada: nasales@eldoled.com Sales support Rest of the World: sales@eldoled.com

Other documentation and support

Visit <u>www.eldoled.com/ACsupport</u> 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.

Notes