

**Colour
is our nature**

100W Full-Colour Dimmable LED Driver

POWERdrive AC is a constant current LED driver with multiple LED outputs that are controlled over four channels. It is targeted at larger networked and smaller standalone installations that require dimmable, high-power full-colour static or dynamic LED lighting. POWERdrive AC is DALI, DMX/RDM, LedSync and 0-10V compatible.

Applications

- Entertainment lighting
- Stage lighting
- Full-colour architectural lighting
- Signage / advertising lighting
- Façade lighting
- Retail display lighting
- Full-colour / tunable white applications
- Decorative lighting

Features & benefits

Input

- Voltage: 120 - 277 VAC
- Current, max:
 - 1A at 120V/60Hz
 - 0.5A at 230V/50Hz
 - 0.45A at 277V/60Hz
- Frequency: 50/60Hz

Output

- Voltage: 60V max, 57V typ
- Current range: configurable from 200mA to 1,050mA
- Power: 100W max

General

- Power factor: > 0.94
- DALI, DMX / RDM, LedSync and 0-10V compatible
- Hybrid HydraDrive: 20-bit resolution
- Dimming control: smooth dimming from 100% to 0.1%, gamma-corrected curve
- High efficiency over a wide power and voltage range: 90% at full load, ≥ 87% above 50W output
- Maximum (rated) power available over wide LED voltage (30-60V) and LED current range (200-1,050mA)
- LED current configurable for each output separately
- Intuitive 3-button user interface for on-the-fly configuration
- LEDcode/NTC interface for robust thermal management
- ShowMaster: 9 default shows, up to 20 user-defined shows, uploadable via TOOLbox and PC software



POWERdrive AC - long metal/plastic - POWER 106/A



POWERdrive AC - square metal - POWER 106/S



POWERdrive AC - long metal - POWER 106/M

Product offering

Description

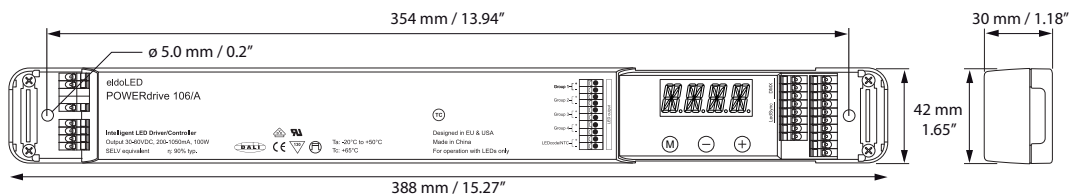
Description	Product	Order no.
POWERdrive AC, 100W, DMX/DALI/0-10V, 4 control chann, const current, 4x 60V LED outputs, long metal/plastic	POWER 106/A	PWR106A1
POWERdrive AC, 100W, DMX/DALI/0-10V, 4 control chann, const current, 4x 60V LED outputs, square metal	POWER 106/S	PWR106S1
POWERdrive AC, 100W, DMX/DALI/0-10V, 4 control chann, const current, 4x 60V LED outputs, long metal	POWER 106/M	PWR106M1

Dimensions, weight, packaging

POWERdrive 106/A

Weight: 705g, 26 ounce

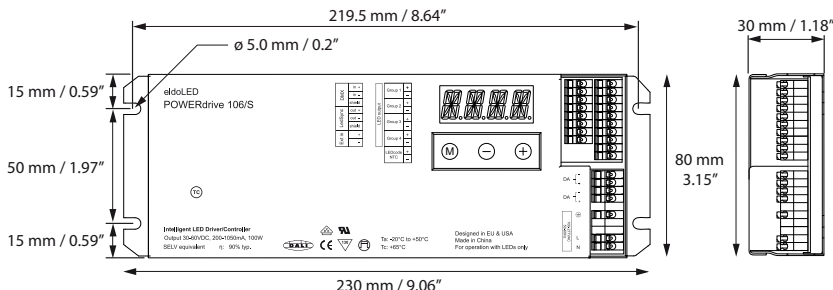
Packaging: 20pcs/carton



POWERdrive 106/S

Weight: 880g, 31 ounce

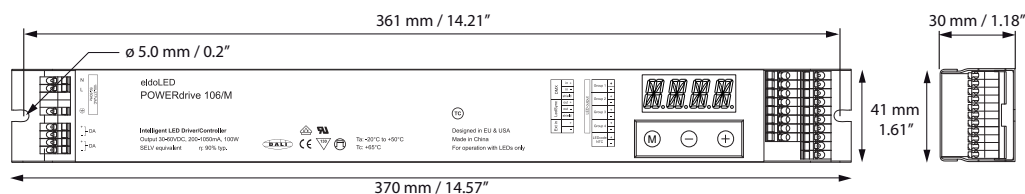
Packaging: 20pcs/carton



POWERdrive 106/M

Weight: 880g, 31 ounce

Packaging: 20pcs/carton



Connections

Connectors

- Power: Line, Neutral and Ground
- DALI: + and - (x2)
- DMX in: +, - and shield
- LedSync out: +, - and shield
- Ext in: + and -

Connectors (cont'd)

- LED outputs: + and - (x4)
- LEDcode/NTC: + and -

Wiring

- Cross section: 0.5 - 1.5 mm², AWG 20 - 16
- Strip length: 9 mm / 0.35 in.

Other information

Certifications

- IEC 61347-1, IEC 61347-2-13, IEC 62384 + A1, EN 55015 + A1, EN 55022 + A1, IEC 61000-3-2, IEC 61547 + A1, IEC 62386-207
- CE
- ENEC by VDE
- UL: Recognized Component for US and Canada (file no. E333135), according to UL1310 and UL8750.
US: Class 2 output. Canada: Non-Class 2 output.

Environmental ratings

- Ta range: -20°C...50°C / -4°F...122°F
- Tc max: 90°C / 194°F (106/A), 85°C / 185°F (106/M), 83°C / 181°F (106/S)
- For use in dry locations

Control compatibility

- DALI control gear
- DMX512A and RDM explore & address (ANSI E1.20) control gear
- Standard 0-10V switch controls



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Other documentation and support

Visit 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.