



**Colour  
is our nature**

## 100W DMX/DALI Full-Colour Dimmable LED Drivers

### Input characteristics

Input voltage AC	120-250V (ENEC approved) 120-277V (UL approved)
Input voltage DC	120-275V
Input current	1.05A max @ 120V/60Hz 0.5A max @ 230V/50Hz 0.45A max @ 277V/60Hz
Input frequency	50-60Hz
Efficiency @ full load	90%
Efficiency @ 1/2 load	≥87%
Power factor @ full load	>0.94
THD @ full load	<10%
Inrush current	35A 240µs @ 120V/60Hz 67A 240µs @ 230V/50Hz 75A 240µs @ 277V/60Hz
Surge protection	3kV (L to N), 4kV (L/N to GND)
Standby power	<0.5W

### Output characteristics

LED output power	100W max
LED output current range	200-1,050mA (settable per output)
LED output current resolution	via display programmable in 50mA steps. Via TOOLbox Pro and FluxTool programmable in 10mA steps
LED output current tolerance	+/- 5%
LED outputs	4 (UL Class 2)
LED output voltage range	2-57V

### Control characteristics

Control channels	4
Dimming protocol	DMX / RDM and DALI
Dimming range	100%-0%
Dimming method	Hybrid HydraDrive
Dimming curve	linear, logarithmic
Driver configuration	via 3-button user interface on driver or via TOOLbox pro and FluxTool

### Product offering



#### POWERdrive 1060/A

P/N: PW1060A1

POWERdrive AC, 100W, DMX/DALI, UI, 4 control channels, constant current, 4x 57V outputs, long metal/plastic



#### POWERdrive 106/M

P/N: PWR106M1

POWERdrive AC, 100W, DMX/DALI, UI, 4 control channels, constant current, 4x 57V outputs, long metal

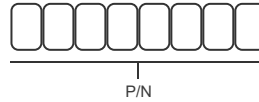


#### POWERdrive 106/S

P/N: PWR106S1

POWERdrive AC, 100W, DMX/DALI, UI, 4 control channels, constant current, 4x 57V outputs, square metal

### Order number configuration

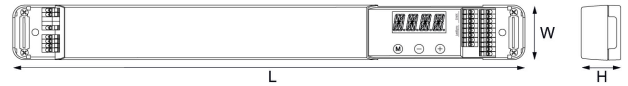


P/N: for LED driver part number, see 'Product offering' above.

## Dimensions, weight and packaging

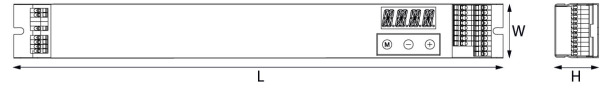
### POWERdrive 1060/A

LxWxH	388x42x30mm / 15.27x1.65x1.18in
Weight	681.5 g / 24 oz
Drivers per carton	20 pcs



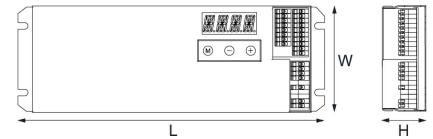
### POWERdrive 106/M

LxWxH	370x41x30mm / 14.57x1.61x1.18in
Weight	774 g / 27.3 oz
Drivers per carton	20 pcs



### POWERdrive 106/S

LxWxH	230x80x30mm / 9.06x3.15x1.18in
Weight	933.5 g / 32.9 oz
Drivers per carton	20 pcs



## Standards and certifications

### Standards compliance

EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/-102/-207
UL, Recognized Component	UL 1310, UL 8750 (Class 2 output)
FCC	47 CFR Part 15 class B
RoHS	RoHS2

### Certifications



## Wiring Specifications

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

## Wiring diagrams

### POWERdrive 1060/A, 106/M



### POWERdrive 106/S



## Thermal protection

External NTC thermistor	throttling @ 70 °C / 158 °F (settable)
External thermistor value	47kΩ
Recommended thermistors	238164063473 (leaded) NTCASCWE3473J (screw)

## Thermal specification

Ta operating range	-40 °C ... +50 °C / -40 °F ... +122 °F
Tc max	1060/A: 90 °C / 194 °F 106/M: 85 °C / 185 °F 106/S: 83 °C / 181 °F

## Warranty

Warranty period	3 years
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