

**Colour  
is our nature**

## 45W/90W/180W DMX/DALI Full-Colour Dimmable LED Drivers

### Input characteristics

Input voltage DC	12-32V
Input current	POWERdrive 45D: 2.2A max POWERdrive 90D: 4.62A max POWERdrive 180D: 6.16A max

### Output characteristics

LED output power	POWERdrive 45D: 45W max POWERdrive 90D: 90W max POWERdrive 180D: 180W max
Programmable LED output current range	POWERdrive 45D: 200 - 500mA POWERdrive 90D: 200-1,050mA POWERdrive 180D: 200-1,400mA
LED output current resolution	programmable in 50mA via user interface on driver programmable in 1 mA steps via TOOLbox and FluxTool
LED output current tolerance	+/- 5% at programmed LED output current
LED outputs	4 (UL Class 2)
LED output voltage range	11-31V (Vsup - 1V)

### Control characteristics

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

### Product offering



**POWERdrive 45D** **P/N: PWR045D2**  
POWERdrive DC, 45W, DMX/DALI/EXT, 4 control channels, constant current, 4x LED outputs, plastic long

**POWERdrive 90D** **P/N: PWR090D2**  
POWERdrive DC, 90W, DMX/DALI/EXT, 4 control channels, constant current, 4x LED outputs, plastic long

**POWERdrive 180D** **P/N: PWR180D2**  
POWERdrive DC, 180W, DMX/DALI/EXT, 4 control channels, constant current, 4x LED outputs, plastic long

### Order number configuration



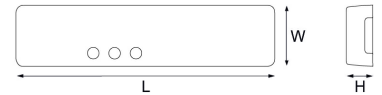
P/N

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

### Dimensions, weight and packaging

#### POWERdrive DC

LxWxH	193x50x23mm / 7.6x1.97x0.91in
Weight	191 g / 6.7 oz
Items per carton	12 pcs



### Standards and certifications

#### Standards compliance

EN	61347-1/-2-13, 62386-101/-102/-207
UL, Recognized Component	UL 1310, UL 8750 (Class 2 output)
RoHS	RoHS2

#### Certifications



### Wiring Specifications

Wire type	VDC:
	AWG 26-20, 0.14-0.5 mm <sup>2</sup>
EXT in, DALI, DMX:	AWG 24-20, 0.25-0.5 mm <sup>2</sup>
	LED, NTC:
Wire strip length	AWG 20-16, 0.5-1.5 mm <sup>2</sup>
	solid or stranded copper
Wire strip length	VDC:
	11 mm / 0.43 in
	All other connectors:
	9 mm / 0.35 in

### Wiring diagrams

#### POWERdrive 45D, 90D, 180D



### Thermal protection

External NTC thermistor	throttling @ 70 °C / 158 °F (settable)
External thermistor value	10kΩ
Recommended thermistors	NCP18XH103FO3RB / Murata B57703M103G / Epcos 238164073103 / Vishay BC Components

### Thermal specification

Ta operating range	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max	65 °C / 149 °F

### Warranty

Warranty period	3 years
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