



**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
LED output current range	POWERdrive 45D: 200 - 500mA (settable per output) POWERdrive 90D: 200-1,050mA (settable per output) POWERdrive 180D: 200-1,400mA (settable per output)
LED output current resolution	50mA
LED output current tolerance	+/- 5%
LED outputs	4 (UL Class 2)
LED output voltage range	11-31V (Vsup - 1V)
Control channels	4

Control characteristics

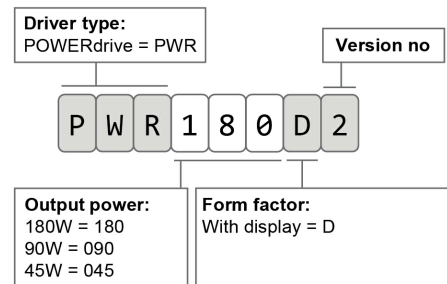
Dimming protocol	DMX and DALI
Dimming range	100%-0% (HydraDrive)
Dimming curve	linear, logarithmic, square
Driver configuration	via 3-button user interface on driver

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	

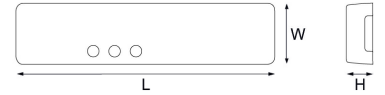
Order number configuration



Dimensions, weight and packaging

POWERdrive DC

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



Standards and certifications

Standards compliance

EN	61347-1/-2-13, 62386-101/-102/-207
RoHS	RoHS2

Certifications



UL Recognized Component for US and Canada (file no. E333135), according to UL1310 and UL8750. US/Canada: Class 2 output.

Wiring Specifications

Wire type	VDC:
	AWG 26-20, 0.14-0.5 mm ²
EXT in, DALI, DMX:	AWG 24-20, 0.25-0.5 mm ²
	LED, NTC:
Wire strip length	AWG 20-16, 0.5-1.5 mm ²
	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