



**Colour
is our nature**

50W DMX Full-Colour (RGB) Dimmable LED Drivers

Input characteristics

Input voltage AC	120-250V (ENEC approved) 120-277V (UL approved)
Input voltage DC	120-250V
Input current	0.7A max
Input frequency	50-60Hz
Efficiency @ full load	89%
Efficiency @ 2/3 load	≥85%
Power factor @ full load	>0.9
THD @ full load	<20%
Inrush current	negligible: 30mA²s @ 277V
Surge protection	1kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	50W max
LED output current range	200-1,050mA (settable per output)
LED output current resolution	programmable in 10mA steps
LED output current tolerance	+/- 5%
LED outputs	3 (UL Class 2)
LED output voltage range	2-55V

Control characteristics

Control channels	3
Dimming protocol	DMX / RDM
Dimming range	100%-0%
Dimming method	Hybrid HydraDrive
Dimming curve	linear, logarithmic, square
Driver configuration	with TOOLbox pro and FluxTool software

Protection

LED output short	yes
LED output cross short	yes
Overload	yes
Reverse polarity	yes, for LED output
Restart after protection	yes

Product offering



POWERdrive 562/A

P/N: PW0562A1

POWERdrive AC, 50W, DMX, 3 control channels, constant current, 3x 55V outputs, square metal/plastic

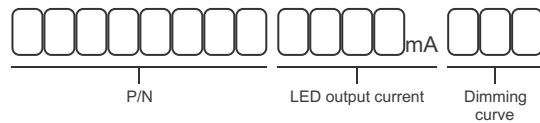


POWERdrive 562/S

P/N: PW0562S1

POWERdrive AC, 50W, DMX, 3 control channels, constant current, 3x 55V outputs, square metal

Order number configuration



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

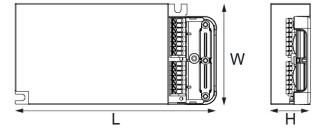
LED output current: in 10mA steps, e.g. "0260", "1010", etc.

Dimming curve: enter "LOG" for logarithmic, "LIN" for linear, or "SQU" for square dimming curve.

Dimensions, weight and packaging

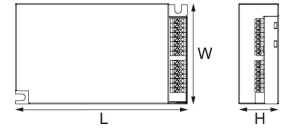
POWERdrive 562/A

LxWxH	152.5x76x30.1mm / 6x2.99x1.19in
Weight	372 g / 13.12 oz
Drivers per carton	6 or 45 pcs



POWERdrive 562/S

LxWxH	130x76x30mm / 5.12x2.99x1.18in
Weight	350 g / 12.35 oz
Drivers per carton	6, 10 or 45 pcs



Standards and certifications

Standards compliance

EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547
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 ² solid or stranded copper
Wire strip length	9mm / 0.35in

Wiring diagrams

POWERdrive 562/A, 562/S



- LED output
- LED output
- LED output
- LEDcode / NTC
- DMX in
- 120-277 VAC

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	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max	85 °C / 185 °F
Tc lifetime	78 °C / 172 °F

Warranty

Warranty period	3 years
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