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Datasheet
POWERdrive 50W

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

Input characteristics

Input voltage AC	120-250V (ENEC) 120-277V (UL)
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
Programmable LED output current range	200-1,050mA
LED output current resolution	programmable in 10mA steps
LED output current tolerance	+/- 5% at programmed LED output current
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

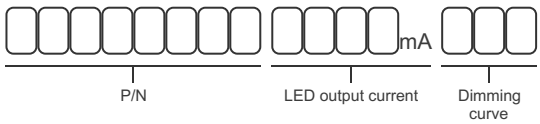
LED output short	yes
LED output cross short	yes
Overload	yes
Reverse polarity	yes, for LED output
Restart after protection	yes

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.

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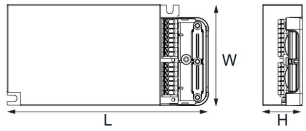
AcuityBrands.

Dimensions, weight and packaging

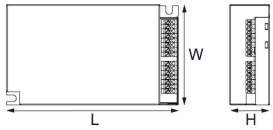
POWERdrive 562/A

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



POWERdrive 562/S

LxWxH	130x76x30mm / 5.12x2.99x1.18in
Weight	350 g / 12.35 oz
Items 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

E333135

Wiring Specifications

Wire type	AWG 20-16, 0.5-1.5mm² solid or stranded copper
Wire strip length	9mm / 0.35in

Wiring diagrams

POWERdrive 562/A, 562/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	-20 ºC ... +50 ºC / -4 ºF ... +122 ºF
Tc max	85 ºC / 185 ºF
Tc lifetime	78 ºC / 172 ºF

Warranty

Warranty period	3 years

Maximum loading of automatic circuit breakers

Automatic circuit breaker type	B10	B13	B16	C10	C13	C16
Amount of LED drivers	14	18	22	14	18	22