



Light
is our passion

50W DALI 'Dim to Dark' LED Driver

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	87%
Efficiency @ 2/3 load	≥84%
Power factor @ full load	>0.9C
THD @ full load	<20%
Inrush current	negligible: 30mA ² s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	50W max
LED output current range	150-1,400mA. Settable.
LED output current resolution	programmable in 1mA steps
LED output current tolerance	+/- 5%
LED outputs	2 (UL Class 2)
LED output voltage range	1.5-55V

Control characteristics

Control channels	1
Dimming protocol	0-10V
Dimming range	100%-0%
Dimming curve	linear, logarithmic, square, soft-linear, or LightShape
LightShape	Dim to Warm, 2x pc-white
Dimming method	Hybrid HydraDrive
Driver configuration	with TOOLbox pro and FluxTool software
0-10V isolation	to line voltage input: 1500V to LED output: 3750V
0-10V current draw	0.6mA max

Product offering

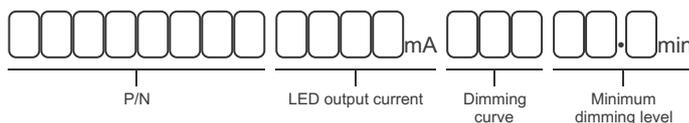


SOLOdrive 561/A

P/N: SL0561A3

SOLOdrive AC, 50W, 0-10V, 1 control channel, constant current, 2x 55V outputs, square metal/plastic

Order number configuration



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

LED output current: in 1mA steps, e.g. "0258", "1011", etc.

Dimming curve: enter "LOG" for a logarithmic, "LIN" for a linear, "SQU" for a square, "SLN" for a soft-linear dimming curve, or "LSH" for LightShape.

Minimum dimming level: write to one decimal place, e.g. "05.0" for 5%, "07.5" for 7.5%, "10.1" for 10.1%, etc. Leave blank if default minimum dimming level (0.1%) is required.

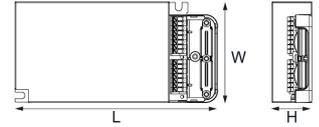
Protection

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

Dimensions, weight and packaging

SOLOdrive 561/A

LxWxH	152.5x76.2x30.1mm
Weight	302 g
Items per carton	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
RoHS2	

Certifications



Wiring Specifications

Wire type	AWG 20-16, 0.5-1.5mm ² solid or stranded copper
Wire strip length	9mm

Wiring diagram

SOLOdrive 561/A



- LED output
- LED output
- LEDcode / NTC
- 0-10V
- 120-277 VAC

Thermal protection

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

Thermal specification

Ta operating range	-20 °C ... +50 °C
Tc max	83 °C
Tc lifetime	76 °C
Lifetime @ Tc lifetime	50,000 hours

Warranty

Warranty period	3 years
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