



Light  
is our passion

## 50W 0-10V 'Dim to Dark' 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: 30mA <sup>2</sup> s @ 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 1mA steps
LED output current tolerance	+/- 5%
LED outputs	2 (UL Class 2)
LED output voltage range	2-55V

### Control characteristics

Control channels	1
Dimming protocol	0-10V
Dimming range	100%-0%
Dimming method	Hybrid HydraDrive
Dimming curve	linear or logarithmic
Driver configuration	with TOOLbox pro and FluxTool software
0-10V isolation	to line voltage input: 1500V to LED output: 3750V
0-10V current draw	<2mA

### Protection

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

### Product offering



#### SOLOdrive 561/A

P/N: SL0561A2

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



#### SOLOdrive 561/M

P/N: SL0561M2

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

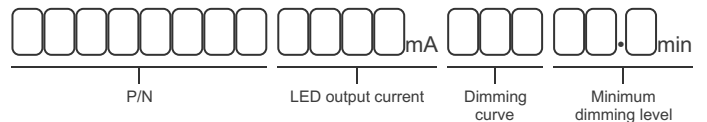


#### SOLOdrive 561/S

P/N: SL0561S2

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

### 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.

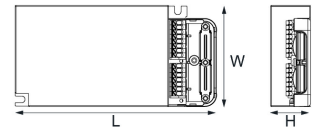
Dimming curve: enter "LOG" for a logarithmic, "LIN" for a linear dimming curve.

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.

## Dimensions, weight and packaging

### SOLOdrive 561/A

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



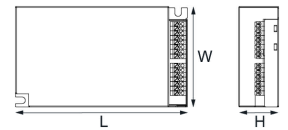
### SOLOdrive 561/M

LxWxH	444x29.9x21mm / 17.48x1.18x0.83in
Weight	360 g / 12.7 oz
Drivers per carton	8 or 28 pcs



### SOLOdrive 561/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	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 <sup>2</sup> solid or stranded copper
Wire strip length	9mm / 0.35in

## Wiring diagrams

### SOLOdrive 561/A, 561/S



### SOLOdrive 561/M



## 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 / 172.4 °F

## Warranty

Warranty period	3 years
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