



# 50W 0-10V 'Dim to Dark' LED Driver

#### 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	86%
Efficiency @ 2/3 load	≥85%
Power factor @ full load	>0.9C
THD @ full load	<20%
Inrush current	negligible: 30mA²s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

## **Output characteristics**

LED output power	50W max		
Programmable LED output current range	150-1400mA		
LED output current resolution	programmable in 1mA steps		
LED output current tolerance	+/- 5% at programmed LED output current		
LED outputs	2 (UL Class 2)		

### **Control characteristics**

Control channels	1
Dimming protocol	0-10V
Dimming range	100%-0.1%
Dimming curve	logarithmic, linear, soft linear or square
LightShape	Dim to Warm, 2x pc-white
Dimming method	Hybrid HydraDrive
Driver configuration	with TOOLbox pro and FluxTool
0-10V isolation	to line voltage input: 1500V
	to LED output: 3750V
0-10V current draw	<2mA

### **Product offering**

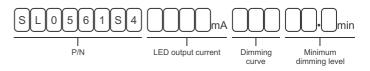


P/N: SL0561S4

#### SOLOdrive 561/S

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

# Order number configuration - Standard



P/N: LED driver part number.

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

Dimming curve: enter "LOG" for logarithmic (default), "LIN" for linear, "SLN" for soft-linear or "SQU" for a square 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.

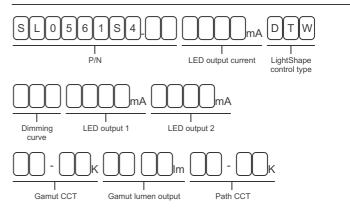


Output current identical for all outputs?



# Order number configuration - LightShape

LED output current



ELD output current	Enter value in 1mA increments, e.g. "725" for 725mA and leave the fields "LED output 1" and "LED output 2" blank. Output current different per output? Enter "MCUR" in LED output current and specify the differing currents in LED output 1/2.
LightShape control type	"DTW" stands for Dim to Warm
Gamut CCT	LightShape-specific option. Enter the LEDs' CCT as "XX-YY" where XX is LED output 1 and YY is LED output 2. Available options per output: 18, 20, 22, 25, 27, 30, 35, 40, 50, 57 and 65. E.g. "18-50" for 1800K on LED output 1 and 5000K on LED output 2.
Gamut lumen output	Enter the lumen output range for LED output 1 and 2 as "XX-YY" where XX is LED output 1 and YY is LED output 2. Available range per output: from "01" for 100lm to "99" for 9900lm.  E.g. "10-12" for 1000lm on LED output 1 and 1200lm on LED output 2.
Path CCT	Leave blank if Path CCT requires the same values as Gamut CCT. Or specify the Path CCT values as "XX-

YY" where XX is LED output 1 and YY

Available options per output: 18, 20, 22,

E.g. "18-50" for 1800K on LED output 1

25, 27, 30, 35, 40, 50, 57, 65.

and 5000K on LED output 2.

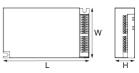
is LED output 2.



# Dimensions, weight and packaging

#### SOLOdrive 561/S

LxWxH	130x76x30mm
Weight	350 g
Items per carton	6, 10 or 45 pcs



## Standards and certifications

#### Standards compliance

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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 <sup>2</sup> solid or stranded copper
Wire strip length	9mm

# Wiring diagram



# Thermal protection

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

Ta operating range	-20 °C +50 °C
Tc max	83 °C
Tc lifetime	75 °C
Lifetime @ Tc lifetime	50,000 hours
Type TL	@1400mA: Tref 63 °C, max 80 °C

#### **Protection**

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

# Warranty

# 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