



Light
is our passion

50W 0-10V/DALI 'Dim to Dark' LED Drivers Featuring AUX Output

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	89% @ full load, ≥85% above 67% load
Power factor	>0.9
THD	<20%
Inrush current	negligible: 30mA ² s @ 277V
Surge protection	1kV differential mode surge 2kV common mode surge
Standby power	<0.5W

Output characteristics

LED output power	50W max
LED output current range	200-1,050mA (settable)
LED output current resolution	1mA
LED output current tolerance	+/- 5%
LED outputs	1 (UL Class 2)
LED output voltage range	2-55V
AUX output	12V DC, 167mA max
Control channels	1

Control characteristics

Dimming protocol	DALI (565) or 0-10V (566)
Dimming range	100%-0% (Hybrid HydraDrive)
Dimming curve	linear or logarithmic
Driver configuration	with TOOLbox pro and FluxTool software
0-10V isolation	to line voltage input: 1500V (566) to LED output: 3750V (566)
0-10V current draw	<2mA (566)

Protection

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

Product offering



SOLOdrive 565/A

P/N: SL0565A1

SOLOdrive AC, 50W, DALI, 1 ballast, constant current, 1x 55V output, 12VDC aux output, square metal/plastic

SOLOdrive 566/A

P/N: SL0566A1

SOLOdrive AC, 50W, 0-10V, 1 control channel, constant current, 1x 55V output, 12VDC aux output, square metal/plastic



SOLOdrive 565/S

P/N: SL0565S1

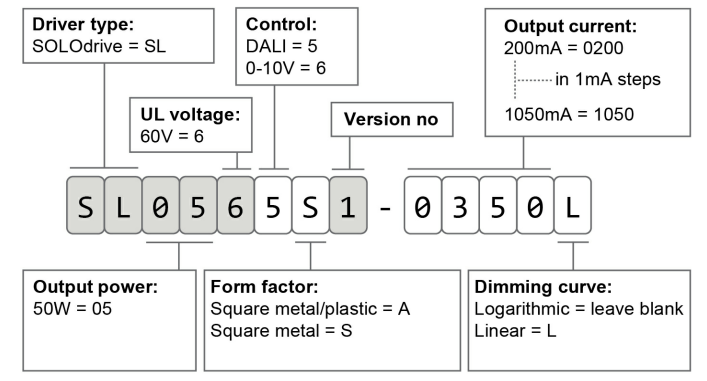
SOLOdrive AC, 50W, DALI, 1 ballast, constant current, 1x 55V output, 12VDC aux output, square metal

SOLOdrive 566/S

P/N: SL0566S1

SOLOdrive AC, 50W, 0-10V, 1 control channel, constant current, 1x 55V output, 12VDC aux output, square metal

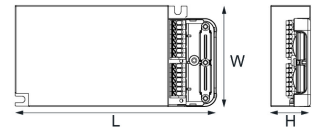
Order number configuration



Dimensions, weight and packaging

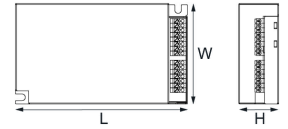
SOLOdrive 565/A, 566/A

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



SOLOdrive 565/S, 566/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 / -2-7 / -2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/102/207 (565)
FCC	47 CFR Part 15 class B
RoHS	RoHS2

Certifications



UL	Recognized Component for US and Canada (file no. E333135), according to UL1310 and UL8750. US/Canada: Class 2 output.
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Wiring Specifications

Wire type	AWG 20-16, 0.5-1.5mm ² solid or stranded copper
Wire strip length	9mm / 0.35in

Wiring diagrams

SOLOdrive 565/A, 566/A, 565/S, 566/S



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

Thermal protection

External NTC thermistor	throttling @ 70 °C / 158 °F (settable)
External thermistor value	47kΩ
Recommended thermistors	NTCS0805E4473JXT (SMD) 238164063473 (leaded) NTCASCWE3473J (screw)

Thermal specification

Ta operating range	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max safety	85 °C / 185 °F
Tc max lifetime	78 °C / 172.4 °F