



100W DALI 'Dim to Dark' LED Driver

SOLOdrive

SOLOdrive offers industry-best Natural Dimming to dark - LED dimming made beautiful! With any dimmer, in any application. Symbiosis on SOLOdrive stands for unity, for the SOLOdrive working seamlessly together with LED modules, controls and intelligent luminaire elements.

Product offering

0	- 63	eldoLED SOL Odrive 1060/A Intelligent LED Driver/Controller Input voltage: AC 120-2504, 50-6042 DC 120-2754	SEL CE CO DALL	 March 2 and 1	0
9	JOA	JL. approved. AC 120-277V, 50-60Hz input current: 1-05A max rj. 90% typ = EF; 2-0.94 THD; <10%	Output power: 1000V max	AND OWNERS (*)	3
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SOLOdrive 1060/A

Part number (P/N)	SL1060A1
Product description	SOLOdrive AC, 100W, DALI, 1 control channel, constant current, 4x 57V outputs, side feed, long metal/plastic

Features & benefits

Natural dimming	Dim to dark, smooth brightness changes, excellent flicker performance, adaptable dimming curves, configurable minimum dimming level
Symbiosis	Seamless interoperability with LED modules, controls and in-luminaire intelligent devices
Programmable	Fine-tune your driver for any application
Performance	Universal input voltage range, low inrush current and total harmonic distortion (THD), high power factor and efficiency
Camera compatibility	Hybrid HydraDrive technology is proven to work in TV studios and security camera environments



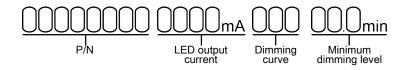


Programming interface	TOOLbox pro (TLU20504)
Programming cable set	TOOLbox pro to LED driver, programming cable, 5pcs (TLC03051)
Programming Hand-held, Touch-and-Go	PJ0035HH1
Programming software	FluxTool

Warranty

period General Terms and Condition

Order number configurator



P/N	LED driver part number.
LED output current	Enter value in 1mA increments, e.g. "811" for 811mA
Dimming curve	"LOG" for logarithmic (default) "LIN" for linear
Minimum dimming level	Leave blank for default minimum dimming level of 0.1%. Specify in 0.1% increments, e.g. "10.5" for 10.5%.





Nominal input voltage range AC	120-250V (ENEC)	
	120-277V (UL)	
Nominal input voltage range DC	120-275V	
Maximum input current	1.05A @ 120V / 60Hz	
	0.5A @ 230V / 50Hz	
	0.45A @ 277V / 60Hz	
Input frequency range	50 - 60Hz	
Efficiency at full load	90%	
Power factor at full load	>0.94	
THD at full load	<10%	
Maximum inrush current	35A 240µs @ 120V / 60Hz	
	67A 240µs @ 230V / 50Hz	
	75A 240µs @ 277V / 60Hz	
Surge protection	3kV differential mode (DM)	
	4kV common mode (CM)	
Maximum standby power	<0.5W	

Output characteristics

Maximum LED output power	100W
Number of LED outputs	4 (UL Class 2)
Programmable LED output current range	200-1,050mA
LED output type	Programmable in 1mA increments within specified current range
LED output type LED output current tolerance	Programmable in 1mA increments within specified current range +/- 5% at programmed LED output current





Control channels	1
Control protocol	DALI
Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear
Dimming method	Hybrid HydraDrive
Dimming curves	100
	Dimming level (%)

Environmental conditions

Operating ambient temperature (Ta) range	-40 °C to +50 °C
Maximum operating case temperature (Tc max)	90 °C





Thermal	The LED output current is decreased whenever the internal LED driver
Thema	temperature exceeds factory preset temperature. The LED output current is
	increased again once the internal LED driver temperature drops below this
	internal temperature threshold. If the internal LED driver temperature continues
	to increase, despite a decrease in output current, the LED driver will shut down
LED output short circuit	The LED output current is cut off whenever the LED driver detects a short-
	circuit. The LED driver will attempt a restart every 400ms after a short-circuit is detected.
LED output overload	The LED driver decreases the LED output current sequentially, until it reaches
	its maximum rated power, whenever a load that exceeds the LED driver's
	maximum rated power is connected to the LED output.
Reverse polarity	The LED driver will not yield any current if the polarity of the load on the LED
	output is reversed. This situation will not damage the LED driver but may
	damage the LED load.
LED protection	
Thermal protection LED	An external NTC thermistor, which is placed on a PCB near the LEDs, can be connected to the driver via the LEDcode/NTC terminals. The output current to
	the LEDs is then decreased by 75% whenever the NTC exceeds a maximum
	allowable temperature, which is specified by the user in the FluxTool software.
	The default NTC temperature limit is set to 70 °C.
Thermistor value	The default NTC temperature limit is set to 70 °C. 47kΩ
Thermistor value Suitable thermistors	<u> </u>



LED driver mechanical details



L	- тнг
Length (L)	typical: 388 mm / 15.27 in
Width (W)	typical: 42 mm / 1.65 in
Height (H)	typical: 30 mm / 1.18 in
3D files available on product web page	IGS
Weight	666 g

Packaging

Products per box 20 pcs

Connector layout



Wiring specifications

Wire type	solid or stranded copper
Wire core cross section	0.5 - 1.5 mm ² AWG 20 – 16
Wire strip length	9.0 mm / 0.35 inch





Maximum loading	ACB type	B10	B13	B16	C10	C13	C16
	Number of LED drivers	5	6	8	8	10	13
Standards and compliance							
ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)						
ENEC performance	EN 62384						
DALI	EN 62386-101/102/207						
Conducted emissions	EN 55015						
Radiated emissions	EN 55015						
Radio disturbance characteristics	EN 55022						
Harmonic current emissions	EN 61000-3-2						
Electromagnetic immunity	EN 61547						
Restriction of hazardous substances	RoHS2						
UL, recognized component	UL 1310 UL 8750 (Class 2 output)						
FCC	47 CFR Part 15 class B						
Certifications							



SOLOdrive 1060/A

Safety	
4	Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.
<u></u>	The LED driver may only be connected and installed by a qualified electrician. All applicable regulations, legislation, and building codes must be observed. Incorrect installation of the LED driver can cause irreparable damage to the LED driver and the connected LEDs.
	Pay attention when connecting the LEDs: polarity reversal results in no light output and often damages the LEDs.
<u></u>	LED drivers are designed and intended to operate LED loads only. Powering non-LED loads may push the LED driver outside its specified design limits and is, therefore, not covered by any warranty.
j	eldoLED products are designed to meet the performance specifications as outlined at certain operating conditions in the data sheet. It is the responsibility of the fixture manufacturer to test and validate the design and operation of the system under expected and potential use cases, including faults.
(i)	Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.
(j)	Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

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