



## 15W DMX Full-Colour (RGBW) Dimmable LED Driver

### ECOdrive

ECOdrive's dynamic response can be tuned to fit any content - from exceptionally smooth fades in architecture to fast-paced video in entertainment. This constant current LED driver is DMX compatible, and allows you to create your colour or dynamic show without an external controller. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

### Product offering



### ECOdrive 15/D

Part number P/N	ECO015D2
Product description	ECOdrive DC, 15W, DMX, 4 control channels, constant current, 4x LED outputs, plastic long

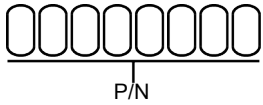
### Programming tools

Programming interface	<a href="#">TOOLbox pro (TLU20504)</a>
Programming cable set	<a href="#">TOOLbox pro to LED driver, programming cable, 5pcs (TLC03051)</a>
Programming software	<a href="#">FluxTool</a>

### Warranty

Warranty period	<a href="#">General Terms and Conditions</a>
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### Order number configurator



P/N LED driver part number.

### Input characteristics

Nominal input voltage range DC 12 - 32V

Maximum input current 0.5A

### Output characteristics

Maximum LED output power 15W

Number of LED outputs 4 (UL Class 2)

Programmable LED output current range 200 - 500mA

LED output type programmable in 50mA steps via user interface on driver  
programmable in 25mA steps via DMX terminal and FluxTool

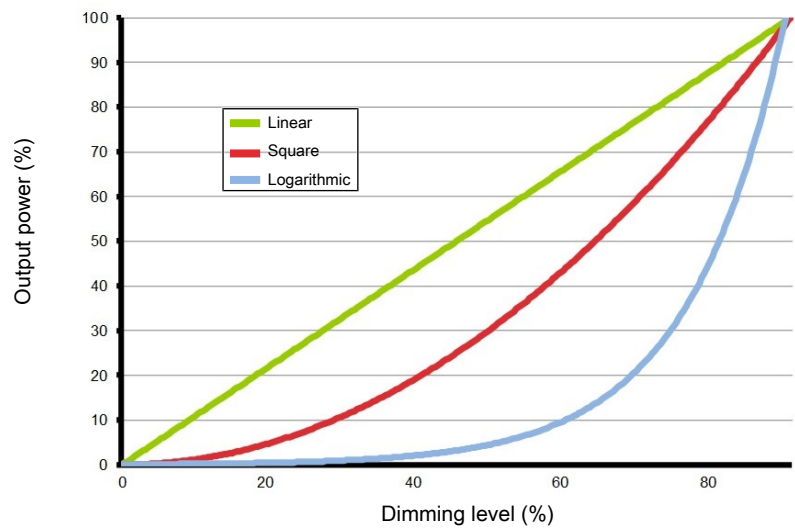
LED output current tolerance +/- 5% at programmed LED output current

LED output voltage range 11 - 31V ( $V_f$  LEDs <  $V_{sup}-1V$ )

### Control characteristics

Control channels	4
Control protocol	DMX
Dimming range	100% - 0.1%
Dimming curve options	Logarithmic (default) Linear Square
Dimming method	HydraDrive

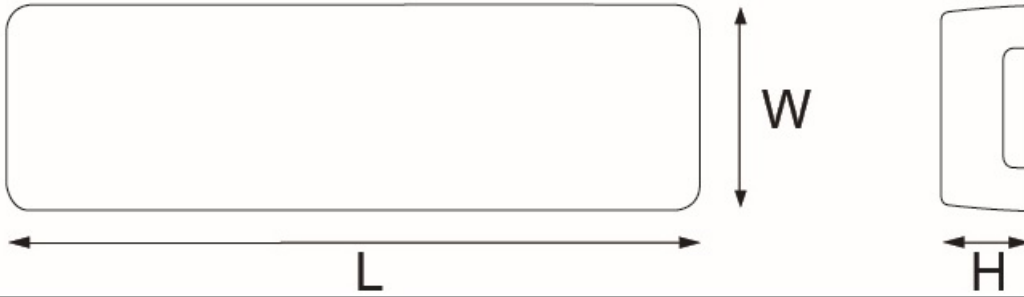
### Dimming curves



### Environmental conditions

Operating ambient temperature (Ta) range	-20 °C to +50 °C
Maximum operating case temperature (Tc max)	65 °C

**LED driver mechanical details**

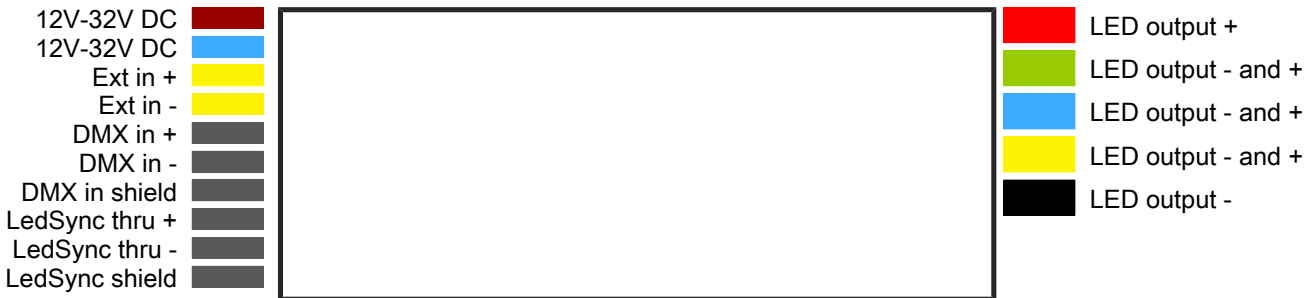


Length (L)	typical: 153 mm / 6.02 in
Width (W)	typical: 50 mm / 1.97 in
Height (H)	typical: 23 mm / 0.91 in
Weight	128.5 g

**Packaging**

Products per box	12 pcs
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**Connector layout**



**Wiring Specifications**

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

### Calibrated start-up procedure

For optimized DMX dimming performance.

While switching the mains input voltage, the DMX signal to the LED driver needs to be at 100% (255). Unused or open LED outputs of the driver need to be disabled. This can be achieved by programming the driver with the eldoLED Fluxtool software. In the "Setup – Control menu", select "Group scaling" for each unused or open LED output and change the actual value to '0', and write into the driver. For all LED outputs in use, change the value to '255'.

### Standards and compliance

UL, recognized component	UL 1310 UL 8750 (Class 2 output)
ENEC safety	EN 61347-1 EN 61347-2-13 (Emergency lighting)
Conducted emissions	EN 55015
Radiated emissions	EN 55015
DMX	E1.11 – 2008, USITT DMX512-A ANSI E1.20
Restriction of hazardous substances	RoHS3 (Directives 2011/65/EU-2015/863/EU)

### Certifications



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## Safety

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Risk of electrical shock. May result in serious injury or death. Disconnect power before servicing or installing.



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.



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.



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.



Please observe voltage drop over long cable lengths. Longer cable lengths increase EMI susceptibility.



Product renderings and dimensional drawings are generic for the housing type. Product label, connector type and quantity may vary.

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### Europe, Rest of World

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