

ECOdrive, a programmable digital LED driver, provides standard LED fixtures with the smoothest flicker-free dimming to 1%. It has a single configurable constant current LED output, making it simple to design in. Symbiosis ensures the LED driver works seamlessly together with LED modules, controls and intelligent luminaire elements.

## Features

- Natural dimming to 1% (Hybrid HydraDrive)
- Symbiosis: add value with sensing, connecting, protecting, tooling, communicating, sharing and lighting dynamics features
- Programmable to fit application

## Electrical specifications

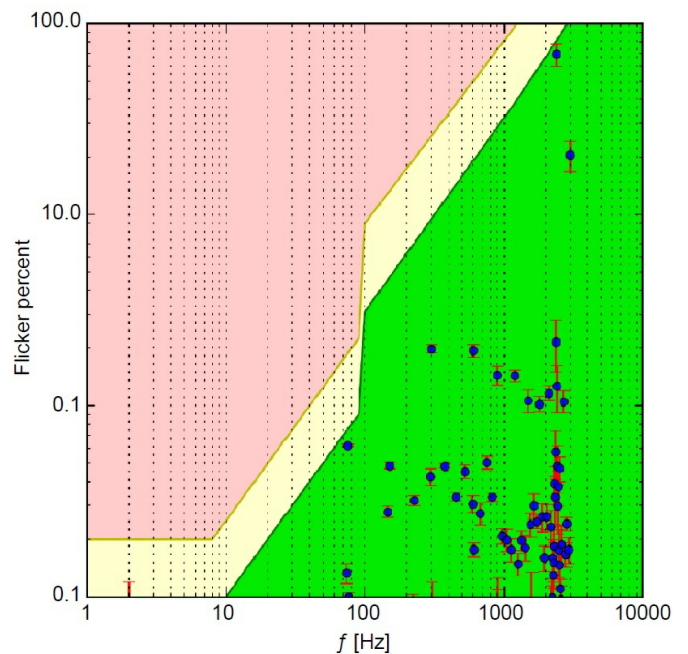
Driver type	constant current
LED outputs	1 (UL Class 2)
LED output power	30W max
LED output current range	150-1,400mA. Settable.
LED output current resolution	programmable in 25mA steps
LED output voltage range	2-55V
Standby power	<0.5W
Input voltage AC	120-250V (ENEC approved) 120-277V (UL approved)
Input voltage DC	120-250V
Input current	0.35A max
Inrush current	negligible: 30mA <sup>2</sup> s @ 277V
Surge protection	2kV DM, 2kV CM
Efficiency @ full load	85%
Efficiency @ 2/3 load	≥83%
Power factor @ full load	>0.9
THD @ full load	<20%
Dimming protocol	0-10V
Control channels	1
Ta operating range	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max	80 °C / 176 °F
Tc lifetime	75 °C / 167 °F
Lifetime @ Tc lifetime	50k hours
Type TL	@1400mA: Tref 54 °C, max 81 °C
Warranty	3 years



ECOdrive AC, 30W, 0-10V, constant current, 1x55V output, bottom feed, metal square

- Low inrush and THD
- High power factor and efficiency
- Compatible with HD studio camera

## IEEE P1789 flicker performance



Tested at 5% dimming level.

IEEE recommended regarding flicker in high-brightness LEDs.

- Green area: no-effect region
- Yellow area: low-risk region
- Red area: high-risk region

Project name:	Contact details:	<b>Europe, Rest of World</b> eldoLED B.V. Science Park Eindhoven 5125 5692 ED Son The Netherlands sales@eldoled.com	<b>North America</b> eldoLED America One Lithonia Way Conyers, GA 30012 USA nasales@eldoled.com
Project number:			
LED driver order number:			

### Certifications & standards



EN 61347-1/-2-13, EN 62384, EN 55015, EN 55022,  
EN 61000-3-2, EN 61547

UL 1310, UL 8750 (Class 2 output). Type TL LED driver

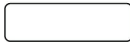
### Dimensions, weight, packaging

LxWxH	130x72x34.4mm / 5.12x2.83x1.35in
Weight	285.5 g, 10.07 oz
Drivers per carton	40 pcs

### Wiring

120-277 VAC

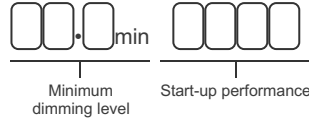
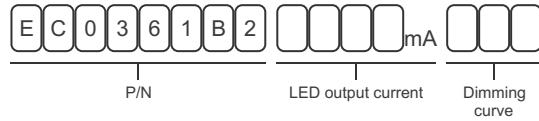
0-10V



LED output

LEDcode / NTC

### Order number configuration



LED output current: in 25mA steps, e.g. "0275", "1025" etc.

Dimming curve: enter "LOG" for logarithmic, "LIN" for 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 (1%) is required.

Start-up performance: Enter "CA24" for improved start-up performance to comply with ENERGY STAR Luminaires v2.0 and the latest CA Title 24 standard, effective January 2017.

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