

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

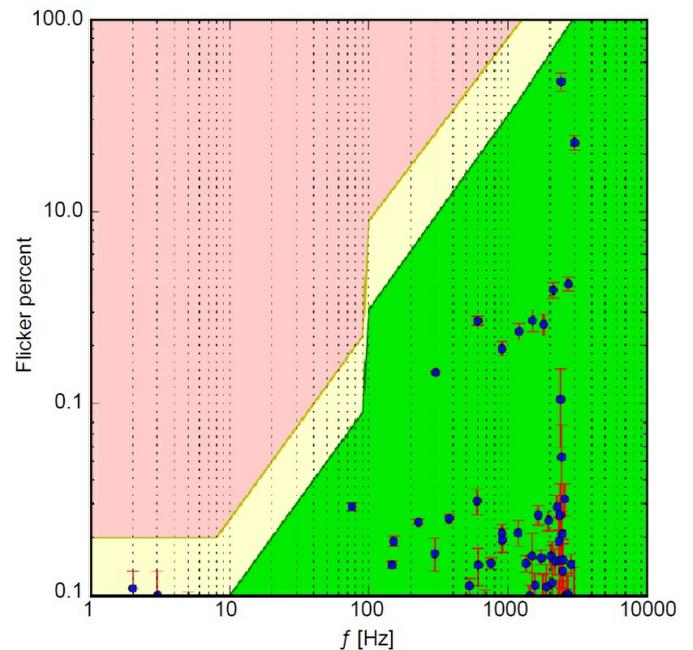
Driver type	constant current
LED outputs	1 (UL Class 2)
LED output power	50W max
Programmable LED output current range	150-1,400mA
LED output current resolution	programmable in 25mA steps
LED output voltage range	2-55V
Standby power	<0.5W
Input voltage AC	120-277V (UL)
Input current	0.7A max
Inrush current	negligible: 30mA <sup>2</sup> s @ 277V
Surge protection	2kV DM, 2kV CM
Efficiency @ full load	88%
Efficiency @ 2/3 load	≥84%
Power factor @ full load	>0.9C
THD @ full load	<20%
Dimming protocol	0-10V
Control channels	1
Ta operating range	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max	75 °C / 167 °F
Tc lifetime	74 °C / 165 °F
Lifetime @ Tc lifetime	50,000 hours
Type TL	@1400mA: Tref 57 °C, max 72 °C @1400mA: Tref 134 °F, max 161 °F
Warranty	3 years



ECOdrive AC, 50W, 0-10V, constant current, 1x55V output, flying leads, long metal

- 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:
Project number:	
LED driver order number:	

#### Europe, Rest of World

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## Certifications & standards



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

FCC 47 CFR Part 15 Class A

RoHS2

## Dimensions, weight, packaging

LxWxH 240x42x30mm / 9.45x1.65x1.18in

Weight 400 g, 14.1 oz

Drivers per carton 40 pcs

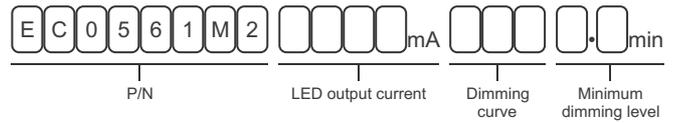
## Wiring

120-277 VAC



LEDcode / NTC  
 LED output  
 0-10V

## Order number configuration



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

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

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.

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