

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.



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

Features

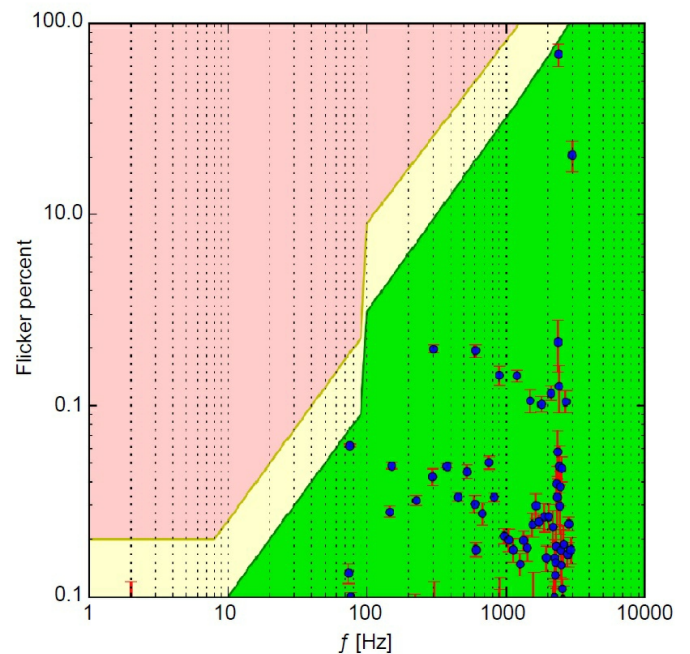
- Natural dimming to 1% (Hybrid HydraDrive)
- Symbiosis: add value with sensing, connecting, protecting, tooling, communicating, sharing and lighting dynamics features
- Programmable to fit application

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

Electrical specifications

Driver type	constant current
LED outputs	1 (UL Class 2)
LED output power	30W 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	120-250V (ENEC), 120-277V (UL)
Input voltage DC	120-250V
Input current	0.35A max
Inrush current	negligible: 30mA*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	50,000 hours
Type TL	@1400mA: Tref 54 °C, max 81 °C
Warranty	3 years

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



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

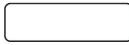
UL 1310, UL 8750 (Class 2 output). Type TL LED driver

Dimensions, weight, packaging

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

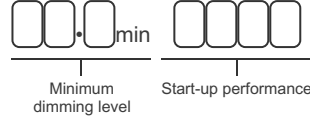
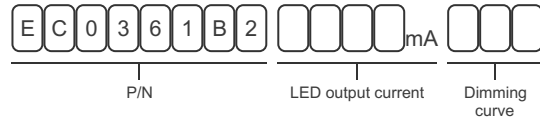
Wiring

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, "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.

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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