



Light
is our passion

30W 0-10V/DALI LED Drivers with Smooth 1% Dimming

Input characteristics

Input voltage AC	120-250V (ENEC approved) 120-277V (UL approved)
Input voltage DC	120-250V
Input current	0.35A max
Input frequency	50-60Hz
Efficiency	86% @ full load, ≥85% above 67% load
Power factor	>0.9
THD	<20%
Inrush current	negligible: 30mA ² s @ 277V
Surge protection	1kV differential mode surge 2kV common mode surge
Standby power	<0.5W

Output characteristics

LED output power	30W max
LED output current range	200-1,050mA (settable)
LED output current resolution	25mA
LED output current tolerance	+/- 5%
LED outputs	1 (UL Class 2)
LED output voltage range	2-55V
Control channels	1

Control characteristics

Dimming protocol	DALI (360) or 0-10V (361)
Dimming range	100%-1% (Hybrid HydraDrive)
Dimming curve	linear or logarithmic
Driver configuration	with TOOLbox pro and FluxTool software
0-10V isolation	to line voltage input: 1500V (361) to LED output: 3750V (361)
0-10V current draw	<2mA (361)

Protection

LED output short	yes
Overload	yes
Reverse polarity	yes, for LED output
Restart after protection	yes

Product offering



ECODrive 360/A P/N: **EC0360A1**
ECODrive AC, 30W, DALI, constant current, 1x 55V output, side feed, plastic long

ECODrive 361/A P/N: **EC0361A1**
ECODrive AC, 30W, 0-10V, constant current, 1x 55V output, side feed, plastic long



ECODrive 360/B P/N: **EC0360B1**
ECODrive AC, 30W, DALI, constant current, 1x 55V output, bottom feed, metal square

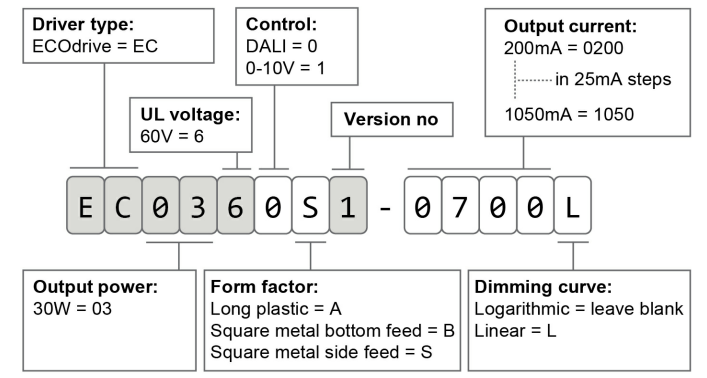
ECODrive 361/B P/N: **EC0361B1**
ECODrive AC, 30W, 0-10V, constant current, 1x 55V output, bottom feed, metal square



ECODrive 360/S P/N: **EC0360S1**
ECODrive AC, 30W, DALI, constant current, 1x 55V output, side feed, metal square

ECODrive 361/S P/N: **EC0361S1**
ECODrive AC, 30W, 0-10V, constant current, 1x 55V output, side feed, metal square

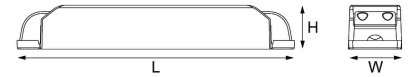
Order number configuration



Dimensions, weight and packaging

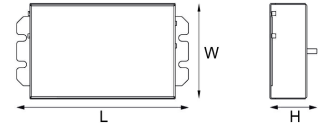
ECOdrive 360/A, 361/A

LxWxH	210x40.4x33.5mm / 8.27x1.59x1.32in
Weight	225 g / 7.94 oz
Drivers per carton	50 pcs



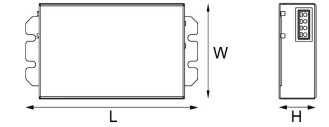
ECOdrive 360/B, 361/B

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



ECOdrive 360/S, 361/S

LxWxH	130x72x28 / 5.12x2.83x1.10in
Weight	285.5 g / 10.07 oz
Drivers per carton	40 pcs



Standards and certifications

Standards compliance

EN	61347-1 / -2-7 / -2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/-102/-207 (360)
FCC	47 CFR Part 15 class B
RoHS	RoHS2

Certifications



UL

Recognized Component for US and Canada (file no. E333135), according to UL1310 and UL8750. US/Canada: Class 2 output.

Wiring Specifications

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

Wiring diagrams

ECOdrive 360/A, 361/A



ECOdrive 360/B, 361/B



ECOdrive 360/S, 361/S



Thermal protection

External NTC thermistor	throttling @ 70 °C / 158 °F (settable)
External thermistor value	47kΩ
Recommended thermistors	NTCS0805E4473JXT (SMD) 238164063473 (lead) NTCASCWE3473J (screw)

Thermal specification

Ta operating range	-20 °C ... +50 °C / -4 °C ... +122 °F
Tc max safety	85 °C / 185 °F (36*/A) 80 °C / 176 °F (36*/B, 36*/S)
Tc max lifetime	80 °C / 176 °F (36*/A) 75 °C / 167 °F (36*/B, 36*/S)