



Light  
is our passion

## 30W 0-10V LED Drivers with Smooth Dimming to 1%

### Input characteristics

Input voltage AC	120-250V (ENEC) 120-277V (UL)
Input voltage DC	120-250V
Input current	0.35A max
Input frequency	50-60Hz
Efficiency @ full load	/A: 84%, /B: 85% and /S: 85%
Efficiency @ 2/3 load	/A: ≥82%, /B: ≥83% and /S: ≥83%
Power factor @ full load	>0.9
THD @ full load	<20%
Inrush current	30mA <sup>2</sup> s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

### Output characteristics

LED output power	30W max
Programmable LED output current range	150-1,400mA
LED output current resolution	programmable in 25mA steps
LED output current tolerance	+/- 5% at programmed LED output current
LED outputs	1 (UL Class 2)
LED output voltage range	2-55V

### Control characteristics

Control channels	1
Dimming protocol	0-10V
Dimming range	100%-1%
Dimming method	Hybrid HydraDrive
Dimming curve	linear, logarithmic, soft-linear or square
Driver configuration	with TOOLbox pro and FluxTool
0-10V isolation	to line voltage input: 1500V to LED output: 3750V
0-10V current draw	<2mA

### Protection

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

### Product offering



#### ECOdrive 361/A

**P/N: EC0361A4**

ECOdrive, 30W, 0-10V, constant current, 1x 55V output, side feed, plastic long



#### ECOdrive 361/B

**P/N: EC0361B2**

ECOdrive, 30W, 0-10V, constant current, 1x 55V output, bottom feed, metal square

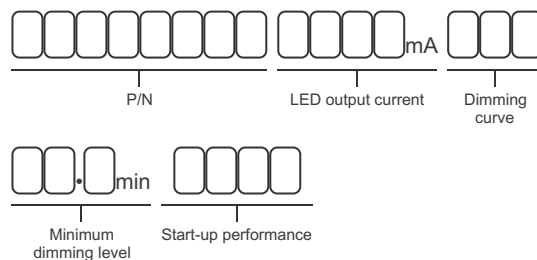


#### ECOdrive 361/S

**P/N: EC0361S2**

ECOdrive, 30W, 0-10V, constant current, 1x 55V output, side feed, metal square

### Order number configuration



P/N: for LED driver part number, see 'Product offering' above.

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.

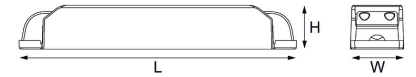
Minimum dimming level: write to one decimal place, e.g. "05.0" for 5%, "07.5" for 7.5%, "10.1" for 10.1%, etc. Leave blank if default minimum dimming level (1%) is required.

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. This only applies to the /B and /S LED driver.

## Dimensions, weight and packaging

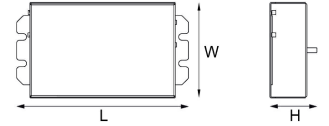
### ECOdrive 361/A

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



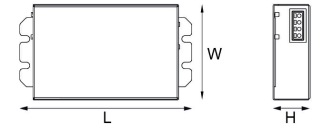
### ECOdrive 361/B

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



### ECOdrive 361/S

LxWxH	130x72x28mm / 5.12x2.83x1.10in
Weight	285.5 g
Items per carton	40 pcs



## Standards and certifications

### Standards compliance

EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547
UL, Recognized Component	UL 1310, UL 8750 (Class 2 output) Type TL LED driver (excluding /A)
FCC	47 CFR Part 15 class B
RoHS	RoHS2

### Certifications

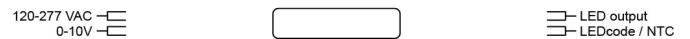


## Wiring Specifications

Wire type	AWG 20-16, 0.5-1.5mm <sup>2</sup> solid or stranded copper
Wire strip length	9mm / 0.35in
Recommended mains wires	for 361/A: H03/H05VVH2-F, 2x0,75 mm <sup>2</sup> (flat) H03/H05VV-F 2x0,75 mm <sup>2</sup> (round)
/A: For independent and remote usage	Max. cable length from LED driver to LED load is 2 meter

## Wiring diagrams

### ECOdrive 361/A



### ECOdrive 361/B



### ECOdrive 361/S



## Thermal protection

External NTC thermistor	throttling @ 70 °C (settable)
External thermistor value	47kΩ
Recommended thermistors	238164063473 (leaded) NTCASCWE3473J (screw)

## Thermal specification

Ta operating range	/A: -20°C ... +50°C for 150-1,050mA. -20°C ... +40°C for 1,050-1,400mA. /B, /S: -20°C ... +50°C
Tc max	/A: 85°C, /B, /S: 80°C
Tc lifetime	/A: 80°C, /B, /S: 75°C
Lifetime @ Tc lifetime	50,000 hours
Type TL	/B /S: @1400mA: Tref 54°C, max 81°C

## Warranty

Warranty period	3 years
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## Maximum loading of automatic circuit breakers

Automatic circuit breaker type	B10	B13	B16	C10	C13	C16
Amount of LED drivers	33	43	53	33	43	53