



Light
is our passion

20W 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	0.3A max
Input frequency	50-60Hz
Efficiency @ full load	86%
Efficiency @ 2/3 load	≥85%
Power factor @ full load	>0.9
THD @ full load	<20%
Inrush current	negligible: 30mA*s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	20W 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 261/B

P/N: EC0261B1

ECOdrive AC, 20W, 0-10V, constant current, 1x 55V output, bottom feed, metal square

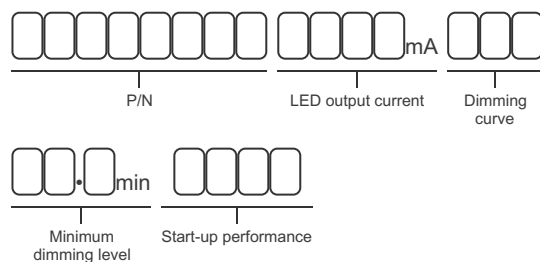


ECOdrive 261/S

P/N: EC0261S1

ECOdrive AC, 20W, 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.

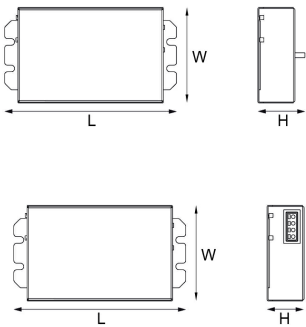
Minimum dimming level: write to one decimal place, e.g. "05.0" for 5%, "07.5" for 7.5%, "10.1" for 10.1%, etc. Leave blank if default minimum dimming level (1%) is required.

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.

Dimensions, weight and packaging

ECOdrive 261/B	
LxWxH	130x72x34.4mm / 5.12x2.83x1.35in
Weight	285.5 g / 10.07 oz
Items per carton	40 pcs

ECOdrive 261/S	
LxWxH	130x72x28mm / 5.12x2.83x1.10in
Weight	285.5 g / 10.07 oz
Items per carton	40 pcs



Standards and certifications

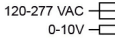

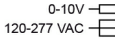

Standards compliance	
EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547
UL, Recognized Component	UL 1310, UL 8750 (Class 2 output) Type TL LED driver
FCC	47 CFR Part 15 class B
RoHS	RoHS2

Certifications	
    	

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 261/B	
	
ECOdrive 261/S	
	

Thermal protection

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

Thermal specification

Ta operating range	-20°C ... +50°C / -4°F ... +122°F
Tc max	75 °C / 167 °F
Tc lifetime	75 °C / 167 °F
Type TL	@1400mA: Tref 56°C, max 87°C @1400mA: Tref 132.8°F, max 188.6°F

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