



Light
is our passion

50W 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	0.7A max
Input frequency	50-60Hz
Efficiency	89% @ full load, ≥85% above 67% load
Power factor	>0.9
THD	<20%
Inrush current	negligible: 30mA ² s @ 277V
Surge protection	1kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	50W 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 characteristics

Control channels	1
Dimming protocol	DALI (560/A) or 0-10V (561/A)
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 (561/A) to LED output: 3750V (561/A)
0-10V current draw	<2mA (561/A)

Protection

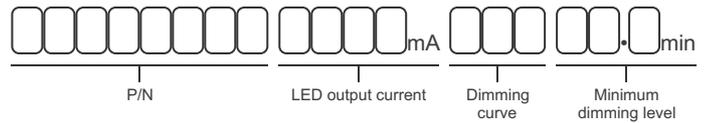
LED output short	yes
Overload	yes
Reverse polarity	yes, for LED output
Restart after protection	yes

Product offering



ECOdrive 560/A	P/N: EC0560A1
ECOdrive AC, 50W, DALI, constant current, 1x 55V output, side feed, square metal/plastic	
ECOdrive 561/A	P/N: EC0561A1
ECOdrive AC, 50W, 0-10V, constant current, 1x 55V output, side feed, square metal/plastic	

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.

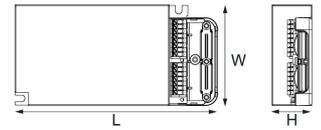
Dimming curve: enter "LOG" for logarithmic, "LIN" for linear dimming curve.

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.

Dimensions, weight and packaging

ECOdrive 560/A, 561/A

LxWxH	152.5x76x30.1mm / 6x2.99x1.19in
Weight	372 g / 13.12 oz
Drivers per carton	6 or 45 pcs



Standards and certifications

Standards compliance

EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547, 62386-101/102/207 (560/A)
UL, Recognized Component	UL 1310, UL 8750 (Class 2 output)
FCC	47 CFR Part 15 class B
RoHS	RoHS2

Certifications



Wiring Specifications

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

Wiring diagrams

ECOdrive 560/A



- LED output
- LEDcode / NTC
- DALI
- 120-277 VAC

ECOdrive 561/A



- LED output
- LEDcode / NTC
- 0-10V
- 120-277 VAC

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	85 °C / 185 °F
Tc lifetime	78 °C / 172.4 °F

Warranty

Warranty period	3 years
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