



Light
is our passion

50W DALI LED Drivers with Smooth Dimming to 1%

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 @ full load	/B: 88% and /S: 87%
Efficiency @ 2/3 load	/B: 86% and /S: 85%
Power factor @ full load	>0.9
THD @ full load	<20%
Inrush current	negligible: 30mA ² s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	50W max
LED output current range	/B: 150-900mA (settable) /S: 150-1,400mA (settable)
LED output current resolution	programmable in 25mA steps
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
Dimming range	100%-1%
Dimming method	Hybrid HydraDrive
Dimming curve	linear or logarithmic
Driver configuration	with TOOLbox pro and FluxTool

Protection

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

Product offering



ECOdrive 560/B

P/N: EC0560B1

ECOdrive AC, 50W, DALI, constant current, 1x 55V output, bottom feed, square metal/plastic

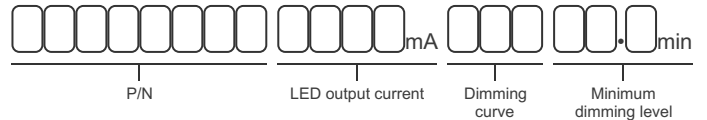


ECOdrive 560/S

P/N: EC0560S2

ECOdrive AC, 50W, DALI, constant current, 1x 55V output, side feed, square metal

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.

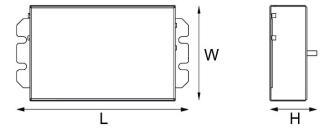
Dimming curve: enter "LOG" for logarithmic, "LIN" for linear.

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

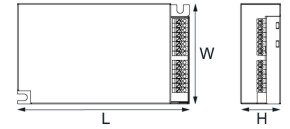
ECOdrive 560/B

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



ECOdrive 560/S

LxWxH	130x76x30mm / 5.12x2.99x1.18in
Weight	350 g / 12.35 oz
Drivers per carton	6, 10 or 45 pcs



Standards and certifications

Standards compliance

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

Certifications



Remark	/B: no CE certification
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Wiring Specifications

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

Wiring diagrams

ECOdrive 560/B



ECOdrive 560/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	/B: -20 °C ... +45 °C /S: -20 °C ... +50 °C
Tc max	/B: 80 °C /S: 75 °C
Tc lifetime	/B: 73 °C /S: 75 °C
Type TL	/B: @900mA: Tref 62 °C, max 85 °C /S: @1400mA: Tref 56 °C, max 70 °C

Warranty

Warranty period	3 years
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