

Light
is our passion

50W 0-10V 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	86%
Efficiency @ 2/3 load	≥85%
Power factor	>0.9 @ full load
THD	<20% @ full load
Inrush current	negligible: 70mA ² s @ 277V
Surge protection	2kV DM, 2kV CM
Standby power	<0.5W

Output characteristics

LED output power	50W max
LED output current range	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	1.5 - 55V
AUX output	15 - 25.5V DC, 18mA max

Control characteristics

Control channels	1
Dimming protocol	0-10V
Dimming range	100%-1%
Dimming method	Hybrid HydraDrive
Dimming curve	linear or logarithmic
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

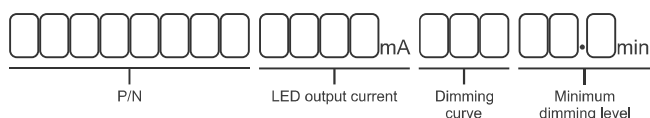


ECODrive 566/L

P/N: EC0566L2

ECODrive AC, 50W, 0-10V + aux, constant current, 1x 55V output, side feed, long 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.

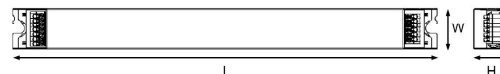
Dimming curve: enter "LOG" for logarithmic, "LIN" for linear dimming curve

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 566/L

LxWxH	320x30x26mm / 12.6x1.2x1in
Weight	225 g / 7.94 oz
Drivers per carton	50 pcs



Standards and certifications

Standards compliance

UL, Recognized Component	UL 1310, UL 8750 (Class 2 output) Type TL LED driver
EN	61347-1/-2-13, 62384, 55015, 55022, 61000-3-2, 61547,
FCC	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

Thermal protection

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

Warranty

Warranty period	3 years
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Wiring diagrams

ECOdrive 566/L



Thermal specification

Ta operating range	-20 °C ... +50 °C / -4 °F ... +122 °F
Tc max	80 °C / 176 °F
Tc lifetime	75 °C / 167 °F
Lifetime @ Tc lifetime	50000 hours