

CoolLED

Efficient
Innovative
Control

DALI Dimmable LED Drivers

350mA to 1400mA

CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply.

The DALI controlled driver provides a digital alternative to standard 1-10V dimmable drivers and offers these key benefits:

Full Dimming Capabilities

Full DALI dimming support from 100% to 10% output current (5% at 700mA) and the ability to turn completely off.

Individual and Group Control

Ability to control individual LED luminaires and simultaneous control of all or specified groups.

Regulated Output Current

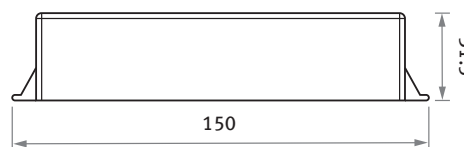
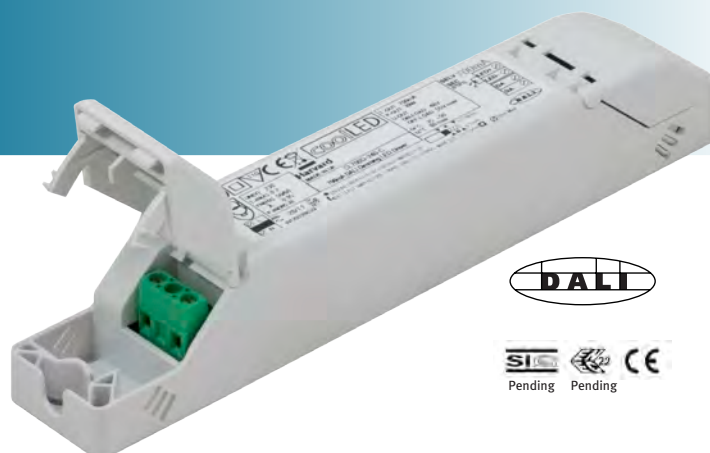
A driver will typically power between 5 and 14 LEDs with a 1W to 3W rating up to a combined forward voltage of 48V (dependant on current).

High Efficiency and Long Life

High Efficiency design ensures cool operation and long life. There is an extra benefit of a very low off power.

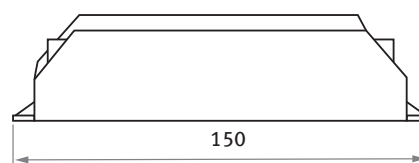
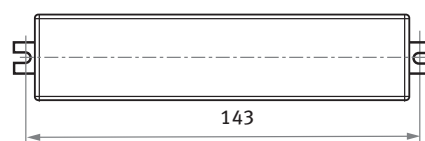
Compact Enclosure and Fast Assembly

Available in Flying Lead (A), Integral (B) and Remote Mount (C) versions. remote types feature screwless cable clamps.

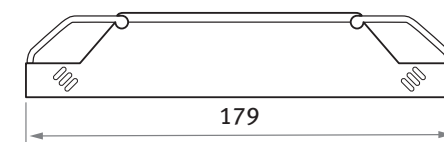
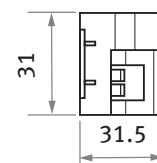
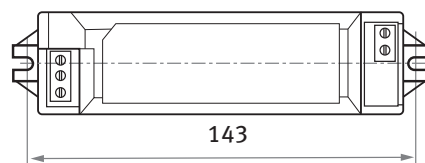


Flying Lead
'A' type

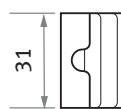
AV 350mm



Integral
'B' type



Remote
'C' type



- DALI control standard EN60929
- Fully-isolated, SELV output delivering up to 30W of power
- Power factor corrected (0.96)
- Isolated DALI interface
- Constant current output
- Self resetting thermal trip
- Double insulated (Class II)
- Up to 85% efficient
- LED string fault reporting
- Integral and remote versions
- Made in the UK
- Low 'off' power (<0.3W)
- Available currents 350mA, 500mA, 700mA, 1000mA, 1200mA, 1400mA

Technical Specification

Specification / Model	CL350D-240-A/B/C	CL500D-240-A/B/C	CL700D-240-A/B/C	CL1000D-240-A/B/C	CL1200D-240-A/B/C	CL1400D-240-A/B/C
Mains input voltage range	220 to 240V ac rms					
Mains frequency	47 to 63Hz					
Power factor at full load	>0.95 (0.96 typical)					
Efficiency at full load	85% typical					
Mains surge protection	4kV common-mode 2kV differential					
Input-output isolation	3.75kV ac rms					
Ambient temperature range	-25°C to 50°C					
Maximum Tc temperature	80°C					
Humidity	95% max non-condensing					
Full output current	350mA (+/-5%)	500mA (+/-5%)	700mA (+/-5%)	1000mA (+/-5%)	1200mA (+/-5%)	1400mA (+/-5%)
Dimming range (output)	Off, 10%-100%	Off, 10%-100%	Off, 5%-100% 700mA	Off, 10%-100%	Off, 10%-100%	Off, 10%-100%
Input power when output is off	<0.3W					
LED string voltage	15V to 48V	15V to 48V	(43V @ 700mA)	15V to 30V	15V to 21V	15V to 18V
Typical no. of LEDs (1-3W)	5 to 14 in series	5 to 14 in series	5 to 13 in series	5 to 9 in series	5 to 7 in series	5 to 6 in series
Enclosure	White polycarbonate UL94-V0 rated					
Dimensions	See diagrams for A, B and C types					
Terminal blocks	Rising clamp 10mm input pitch, 5mm output pitch					
Wire size	0.5 to 1.5mm ²					
Weight	120g					
Compliance	EN61347-2-13 EN61000-3-3 EN61547 EN62384 EN55015:2006 +A1:2007 DALI Standard EN60929					

DALI Support

DALI Dimmable Driver

