

DALI CoolLED - 30W DALI dimmable LED DRIVERS

350mA to 1400mA

Cool-LED DRIVERS provide a performance solution for powering high-brightness LED's 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 series string 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

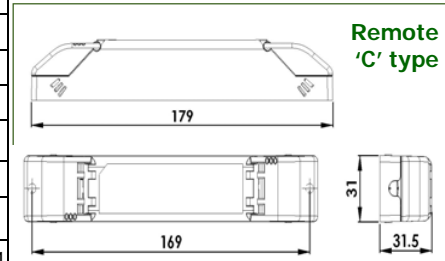
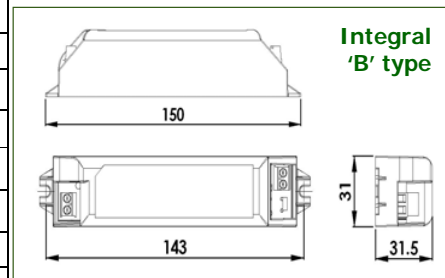
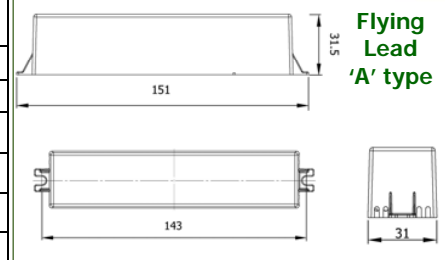
Available in Flying Lead (A), Integral (B) and Remote Mount (C) versions. Remote types feature screwless cable clamps



- 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
- Powers LED strings of 15V to 48V forward voltage (43V @ 700mA and 30V @ 1000mA)
- Made in UK
- Integral and remote versions
- 10% to 100% current logarithmic dimming (5% at 700mA)
- Low 'off' power (<0.3W)
- Available currents 350mA, 500mA, 700mA, 1000mA, 1200mA, 1400mA (see reverse for 1000 to 1400mA spec).

Technical Specification 350 to 700mA

Specification / Model	CL350D-240-A,B or C	CL500D-240-A,B or C	CL700D-240-A,B or C
Mains input voltage range	198 to 265V 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%)
Dimming range (output current)	Off, 10%-100%		Off,5%-100%
Input power when output is off	<0.3W		
LED string voltage	15V to 48V (43V @ 700mA)		
Typical no. of LEDs (1-3W)	5 to 14 in series	5 to 14 in series	5 to 12 in series
Open-circuit output voltage	55V maximum		
Enclosure	White polycarbonate UL94-V0 rated		
Dimensions	See diagrams for A, B and C types		
Terminal blocks	Rising clamp (B&C style)		
Wire size	0.5 to 1.5mm ²		
Weight	120g		
Compliance	EN 61347-2-13 EN 6100-3-2 EN 6100-3-3 EN 61547 EN62384 EN55015:2006 +A1:2007 Dali Standard EN60929		

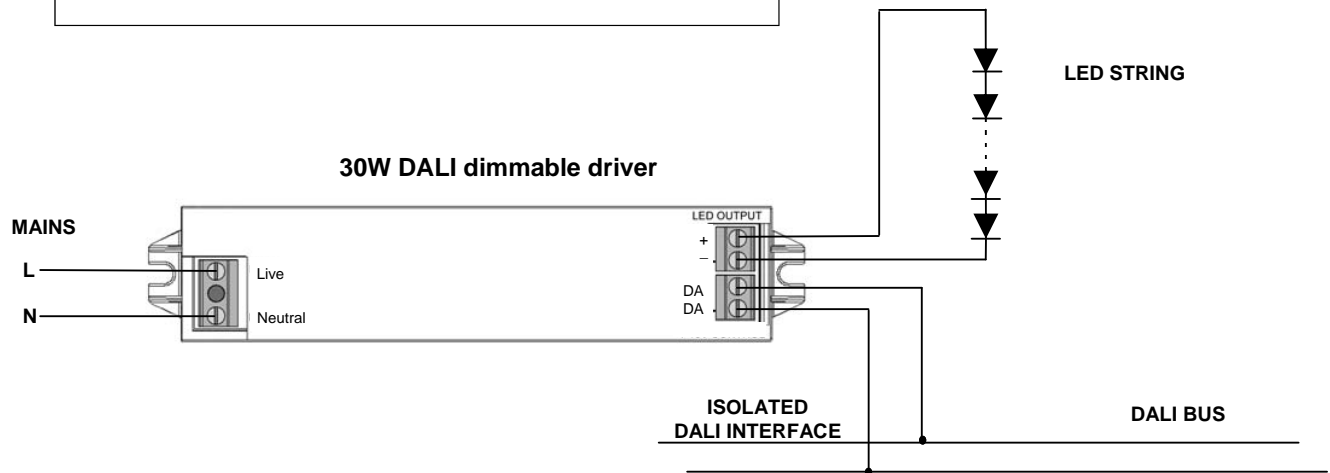


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DALI SUPPORT

100% - 10% (5% at 700mA) logarithmic dimming (completely off)
16 DALI groups
16 DALI scenes
Lamp fault reporting checks on LED string volts
Compliant with DALI control standard EN60925



Technical Specification 1000 to 1400mA

Specification / Model	CL1000D-240-A,B or C	CL1200D-240-A,B or C (subject to final testing)	CL1400D-240- A,B or C (subject to final testing)
Mains input voltage range	198 to 265V 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	1000mA (+/- 5%)	1200mA (+/- 5%)	1400mA (+/- 5%)
Dimming range (output current)	Off, 10%-100%		
Input power when output is off	<0.3W		
LED string voltage	15V to 30V	15V to 21V	15V to 20V
Typical no. of LEDs (1-3W)	5 to 8 in series	5 to 7 in series	5 to 6 in series
Open-circuit output voltage	36V max		
Enclosure	White polycarbonate UL94-V0 rated		
Dimensions	See diagrams for A, B and C types		
Terminal blocks	Rising clamp (B&C style)		
Wire size	0.5 to 1.5mm ²		
Weight	120g		
Compliance	EN 61347-2-13 EN 6100-3-2 EN 6100-3-3 EN 61547 EN62384 EN55015:2006 +A1:2007 Dali Standard EN60929		