CoolLED

CL Standard Uni

Up to 33W / 120 -277V ac rms

Harvard

Designed and manufactured in the UK

CoolLED

CoolLED Efficient Innovative Control

CL Standard Uni LED Drivers

350mA, 500mA, 700mA 1000mA & 1050mA,

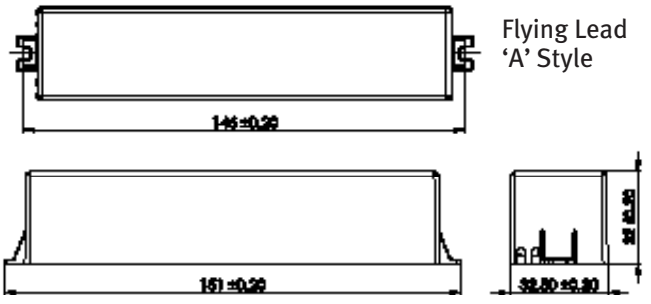
CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply.

The power factor corrected, class II driver has fully isolated, SELV/ Class 2 output delivering up to 33W of power.

All CoolLED Drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in Remote with Flying Leads (A), Integral (B) and Remote (C) versions. Remote types feature screwless cable clamps.

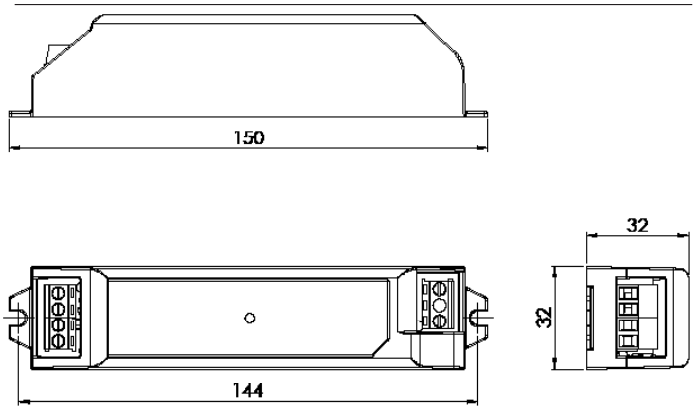
CoolLED Drivers are open and short-circuit protected and have self-resetting over temperature trip.

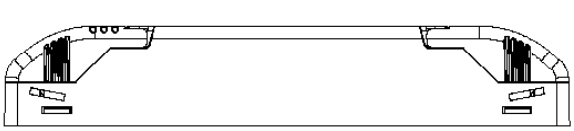
Consult the sales office for versions where the current level can be set by external switch or presence detector. These drivers include a "soft dim" feature to avoid sudden steps in LED brightness.



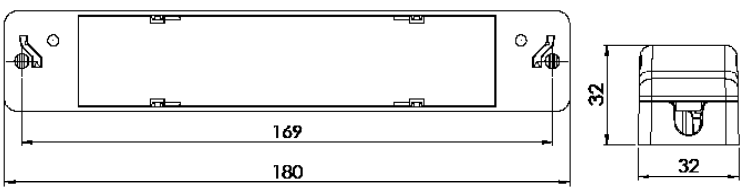
Flying Lead 'A' Style

- Combined forward voltage of up to 48V
- Power factor corrected (0.98)
- Constant current output
- Self resetting thermal trip
- Double insulated
- Screwless cable clamps for fast assembly (Remote Style)
- Up to 87% efficient
- Surge protection up to 4kV
- SELV/ Class2 isolation
- Integral and remote versions
- Dimmable versions available (consult sales team for details)



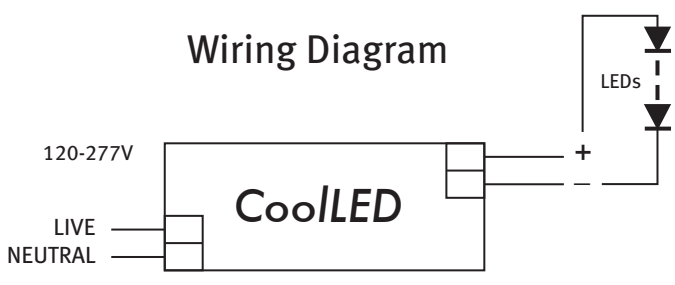


Remote 'C' Style



*all measurements in mm

Wiring Diagram



* See technical spec for maximum values

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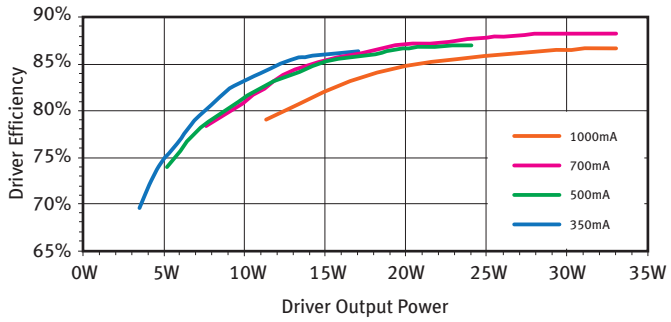
Technical Specification

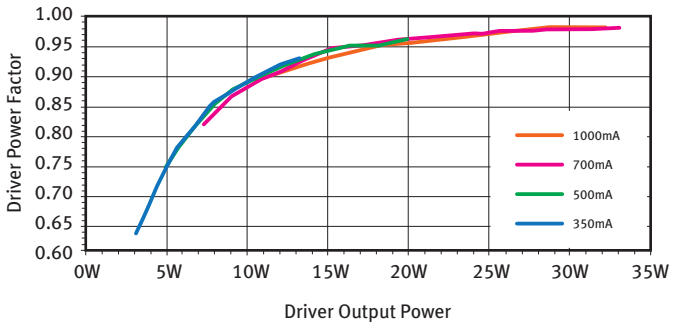
Parameter / Model	CL350-Uni-A/B/C	CL500-Uni-A/B/C	CL700-Uni-A/B/C	CL1000-Uni-A/B/C	CL1050-Uni-A/B/C
Mains input voltage	120 - 277V ac rms				
Mains frequency	47 to 63Hz				50 to 60Hz
Power factor at full load	>0.95 (0.98 typical)				
Efficiency at full load	87% typical				86%
Mains surge protection	4kV common-mode 2kV differential				
Input-output isolation	3.75kV ac rms				
Ambient temperature range	-25°C to 40°C				
Maximum Tc temperature	80°C (TBC)				
Humidity	95% max non-condensing				
Thermal trip	110°C self resetting				
Maximum output power	17W	24W	33W	33W	33W
Output current	350mA	500mA	700mA	1000mA	1050mA
Output current accuracy	± 5%				
LED string voltage	9V to 48V	9V to 48V	9V to 48V	9V to 33V	9V to 31V
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				
Current ripple	10V output = 22% 48V output = 7.5%				10V output = 38% 33V output = 14.5%
Wire size	12-24 AWG / 0.5 to 1.5mm²				
Weight	120g				
Compliance standards	UL 8750 / UL 1310 / FCC				

Performance Graphs

CoolLED Driver Efficiency Characteristic at 230V Input CoolLED



Driver Power Factor Characteristic at 230V Input



NB. Low power driver available at 350mA & 700mA to improve efficiency for output loading of 10W and below.

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