

CoolLED - High Power, Standard LED DRIVERS

350mA, 500mA, 700mA & 1000mA

Cool-LED DRIVERS provide a high performance solution for powering high-brightness LED's from a mains supply.

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

The well regulated output current will typically power a series string of between 3 and 14 LEDs with a 1W to 3W rating up to a combined forward voltage of 48V (1000mA = 33V)

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 Mount (C) versions. Remote types feature screwless cable clamps.

Cool-LED DRIVERS are open and short-circuit protected and have self-resetting over temperature trip.

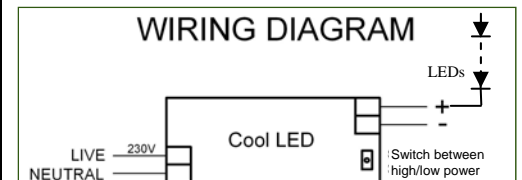
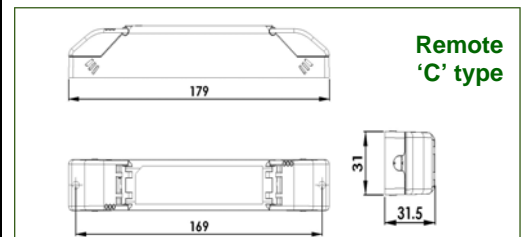
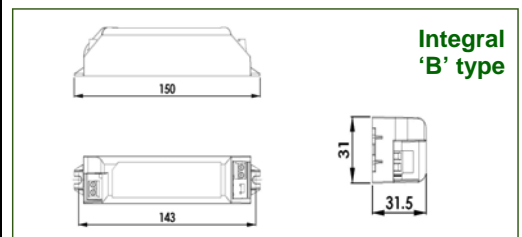
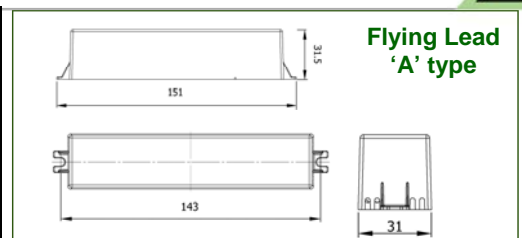
Consult the sales office for versions where the current level can be set by external switch or presence detector. These drivers include a "soft dim" feature to avoid sudden steps in LED brightness.



- Power factor corrected (0.98)
- Constant current output
- Self resetting thermal trip
- Double insulated (Class II)
- Screwless cable clamps for fast assembly
- Up to 88% efficient
- Surge protection up to 3.75kV
- SELV isolation
- Made in UK
- Integral and remote versions
- Dimmable versions available (consult sales team for details)

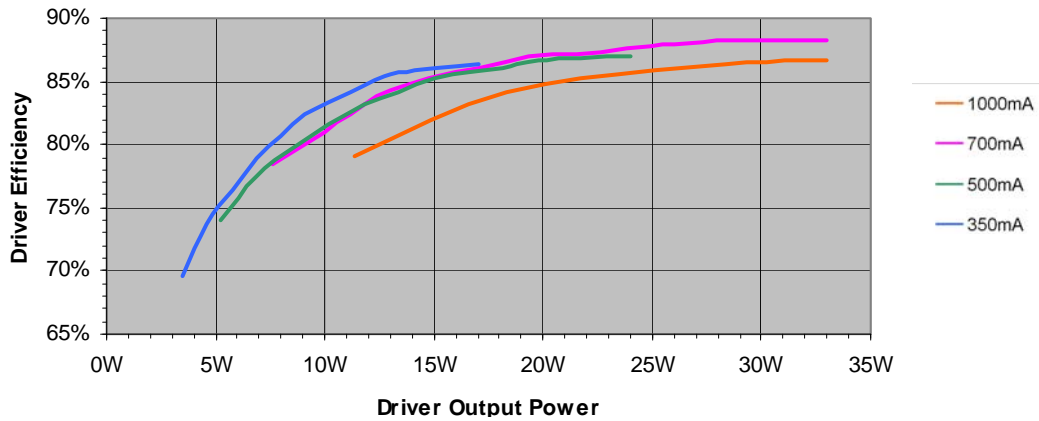
Technical Specification

Parameter / Model	CL350-240-A, B or C	CL500-240-A, B or C	CL700-240-A, B or C	CL1000-240-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 (0.98 typical)			
Efficiency at full load	88% typical			
Mains surge protection	3.75kV common-mode 2kV differential			
Input-output isolation	4kV ac rms			
Ambient temperature range	-25°C to 50°C			
Maximum Tc temperature	80°C			
Humidity	95% max non-condensing			
Thermal trip	110°C self-resetting			
Maximum output power	18W	24W	33W	33W
Output current (switchable)	350mA	500mA	700mA	1000mA
Output current accuracy	±5%			
LED string voltage	9V to 48V	9V to 48V	9V to 48V	9V to 33V
Typical no. of LEDs (1-3W)	3 to 14	3 to 14	3 to 14	3 to 8
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 5mm pitch ('B' and 'C' type only)			
Current ripple	10V output = 22% 48V output = 7.5%		10V output = 38% 33V output = 14.5%	
Wire size	0.5 to 1.5mm ²			
Weight	120g			
Compliant standards	EN 61347-2-13 EN 6100-3-2 EN 6100-3-3 EN 61547 EN 55015 EN 62384			

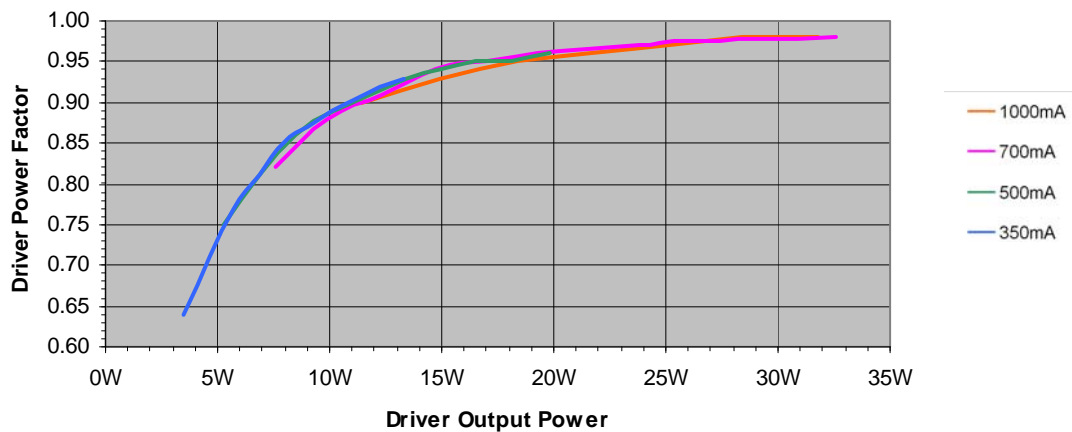


Performance Graphs

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.