

## Cool-LED - High Power, Switchable LED DRIVERS

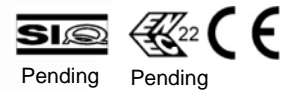
350/700mA, 500/1000mA,  
1200/1400mA

**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, 1200mA = 21V, 1400mA = 18V).

**Cool-LED Switchable Drivers** feature a switch, accessible during installation, to select between full and half rated output current.

High efficiency design 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.

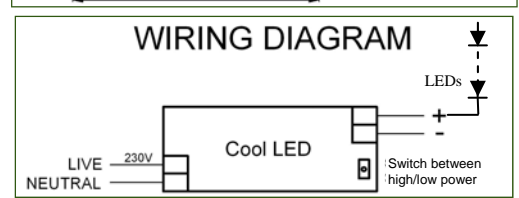
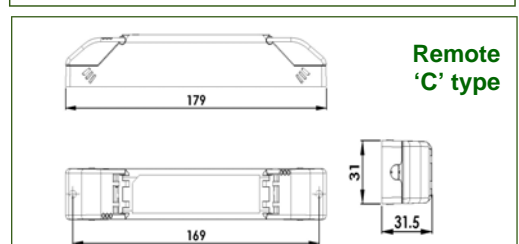
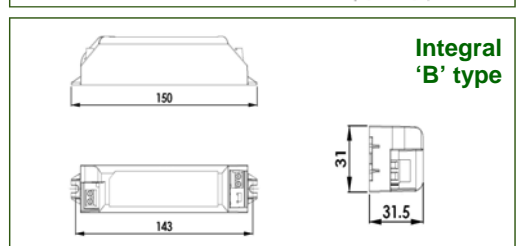
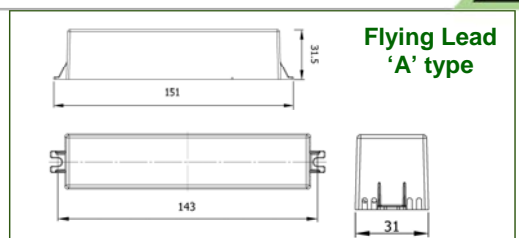
Consult the sales office for versions where the current level can be set by external switch or presence detector. These drivers include a "soft dim" feature to avoid sudden steps in LED brightness.



- Power factor corrected (0.98)
- Constant current output
- Switchable between 350/700mA, 500/1000mA or 1200mA/1400mA
- 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)

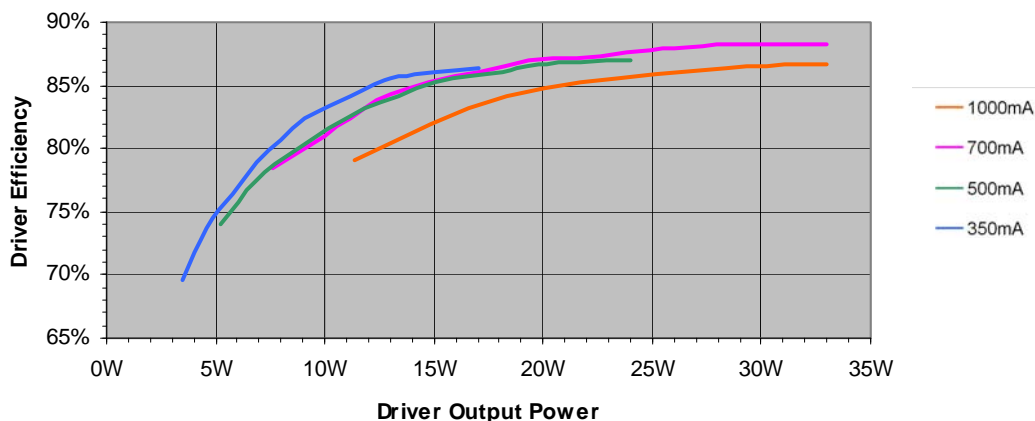
### Technical Specification

Parameter / Model	CL700S-240-A, B or C	CL1000S-240-A, B or C	CL1400S-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	33W	33W	25W
Output current (switchable)	350mA & 700mA	500mA & 1000mA	1200mA & 1400mA
Output current accuracy	±5%	±5%	±5%
LED string voltage	9V to 48V	9V to 48V (33V at 1000mA)	9V to 21V (18V at 1400mA)
Typical no. of LEDs (1-3W)	3 to 14	3 to 14(8 at 1000mA)	3 to 7 (6 at 1400mA)
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%	10V output = TBC 21V output = TBC
Wire size	0.5 to 1.5mm <sup>2</sup>		
Weight	120g		
Compliant standards	EN 61347-2-13 EN 6100-3-2 EN 6100-3-3 EN 61547 EN55015 EN62384		

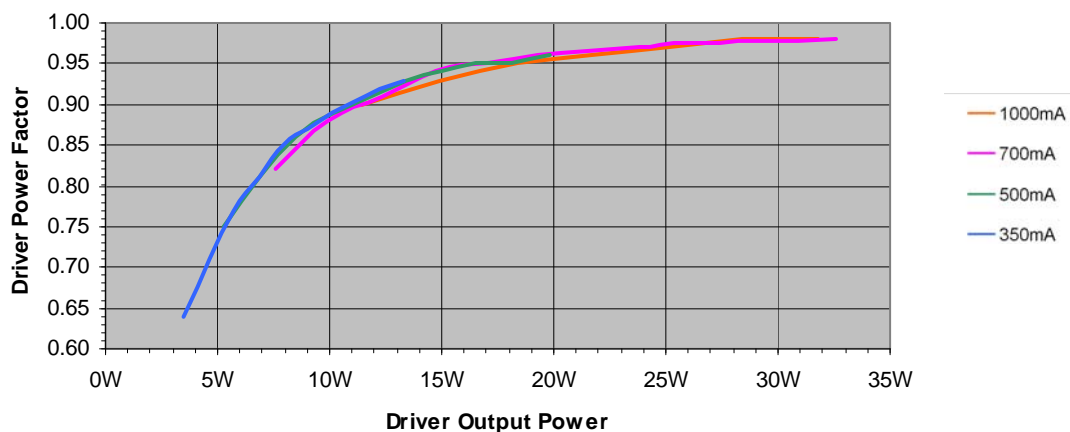


## Performance Graphs

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.