

Harvard Technology

CoolLED

LED DRIVERS

CLV - PSU

Constant Voltage Power Supply Unit

12V and 24V

CoolLED constant voltage drivers provide a high performance solution for powering high-brightness LED lighting modules from a mains supply.

The power factor corrected, class II driver has a fully isolated, SELV output delivering up to 30W of power (13W for 12V output)

High efficiency design ensures cool operation and long life. The compact enclosure is available in Integral (B) and Remote Mount (C) versions. Remote types feature screwless cable clamps.

CoolLED PSU is open and short circuit protected and has self-resetting over temperature trip.

N.B. - These drivers have constant voltage output and should only be used where there is additional means of controlling the current in the LED load.

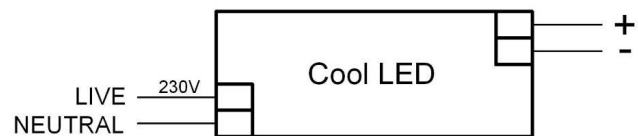
Where direct connection between driver and LEDs is required, use instead the Harvard constant current CoolLED drivers.



Product Description

- 220-240 Input voltage
- Power factor corrected (0.98)
- Constant voltage output
- Self resetting thermal trip
- Up to 30W of power
- SELV Isolation

Wiring diagram



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LED
SOLUTIONS

Technical Specification

Mains input voltage	220 to 240V ac RMS Nominal
Mains frequency	50 - 60Hz
Mains surge Protection	4kV common-mode 2kV differential
Input-output isolation	3kV ac rms
Humidity	95% max non-condensing
Thermal trip	110°C internal self-resetting
Ambient temperature range	-25°C to 50°C
Maximum Tc temperature	80°C
Terminal blocks	Rising clamp 10mm pitch input, 5mm pitch output
Enclosure	White polycarbonate UL94-V0 rated
Wire size	0.5mm to 1.5mm ²

Case Style	Dimensions	Weight	Box Quantity
B - Integral	150mm x 32mm x 32mm	115g	50
C - Remote	180mm x 32mm x 32mm	130g	50

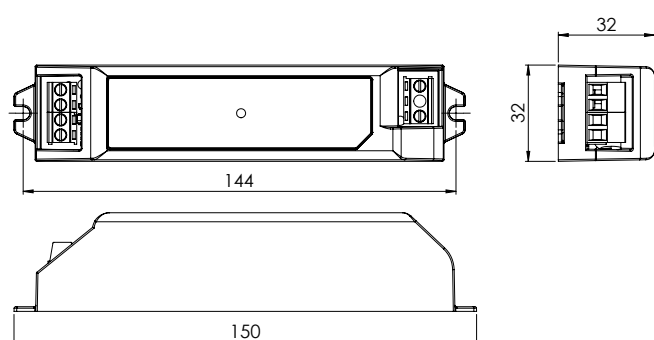
Tolerance: + or - 0.3mm

Variants

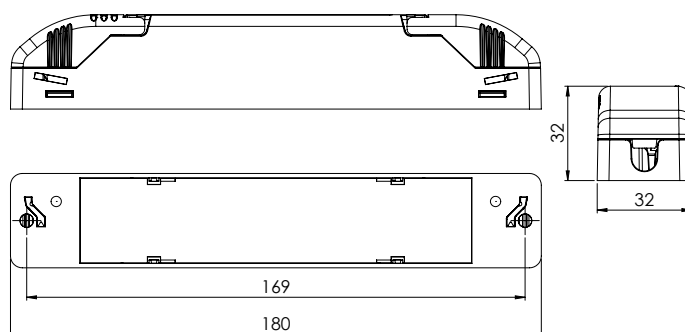
Part number	Current	Output Voltage	Output power range	Power factor at full load	Efficiency at full load
CLV12-240-13-B/C	0 - 1.1A	12VDC $\pm$ 5% (Constant)	0 - 13W	>0.93	80%
CLV24-240-B/C	0 - 1.2A	24VDC $\pm$ 5% (Constant)	0 - 30W	>0.98	85%

Dimensions

B Style (Integral)



C Style (Remote)



Compliance

Approval	Standards
ENEC	EN 61347, EN 61000-3-2, EN 61000-3-3, EN 61547:2009, EN 55015:2013 & EN62384



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