

CoolLED

LED DRIVERS

CLQ
Twin Switchable & Non-Switchable Output

Up to 66W

500mA, 600mA & 700mA

350/700mA, 500/1000mA & 700/1000mA

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

Power factor corrected, driver has a fully isolated, SELV output delivering up to 2 x 33W of power.

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 screw-less cable clamps.

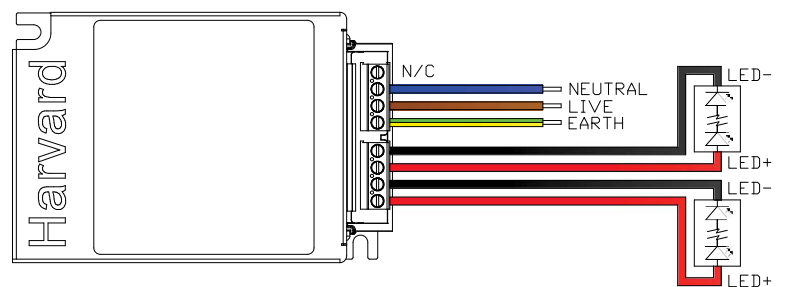
All CoolLED drivers are open and short circuit protected and have self resetting over temperature trip.



Product Description

- 220 - 240V Input voltage
- Power factor corrected (0.98)
- Constant current output
- Self resetting thermal trip
- Up to 89% efficiency
- Surge protection up to 4kV
- Dimmable versions available
- SELV Isolation

Wiring diagram



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Technical Specification

| | |
|---------------------------|----------------------------------|
| Mains input voltage | 220 - 240V ac RMS Nominal |
| Mains frequency | 50- 60Hz |
| Mains surge protection | 4kV common-mode 2kV differential |
| Input-output isolation | 3kV ac rms |
| Mains inrush current | 75A peak decaying over 20us |
| Humidity | 95% max non-condensing |
| Thermal trip | 110°C - internal self-resetting |
| Ambient temperature range | -25°C to 50°C |
| Terminal blocks | Rising clamp 5mm pitch |
| Enclosure | Aluminum |
| Wire size | 0.5mm to 1.5mm ² |

| Case Style | Dimensions | Weight | Box Quantity |
|--------------------|------------------------------|--------|--------------|
| Integral 'B' Style | 116.55mm x 81.50mm x 34.50mm | 250g | 60 |
| Remote 'C' Style | 142.50mm x 81.50mm x 34.50mm | 263g | 60 |

Tolerance: + or - 0.5mm

Variants

| Part number | Current | LED String Voltage | Maximum Tc temperature | Output power range | Power factor at full load | Efficiency at full load |
|--------------------|------------------|--------------------------|------------------------|--|---------------------------|-------------------------|
| CLQ2500-240-B/C | 500mA (±5%) | 12V to 48V | 85°C | 48W @ 500mA (24W per string) | >0.98 typical | 88% typical |
| CLQ2600-240-B/C* | 600mA (±5%) | 12V to 48V | 85°C | 58W @ 600mA (29W per string) | >0.98 typical | 89% typical |
| CLQ2700-240-B/C | 700mA (±5%) | 12V to 48V | 85°C | 66W @ 700mA (33W per string) | >0.98 typical | 89% typical |
| CLQ2700S-240-B/C | 350/700mA (±5%) | 12V to 48V | 85°C | 66W @ 700mA (33W per sting) 34W @ 350mA (17W per string) | >0.98 typical | 89% typical |
| CLQ21000S-240-B/C | 500/1000mA (±5%) | 12V to 33V (48V @ 500mA) | 80°C | 66W @ 1000mA (33W per sting) 48W @ 500mA (24W per string) | >0.98 typical | 86% typical |
| CLQ21000S2-240-B/C | 700/1000mA (±5%) | 12V to 33V (48V @ 700mA) | 80°C | 66W (33W per string) | >0.98 typical | 86% typical |

* ENEC Pending

Compliance

| Approval | Standards |
|----------|---|
| ENEC | EN 61347-2-13, EN 61000-3-2, EN 61000-3-3, EN 61547:2009, EN 55015:2013 |



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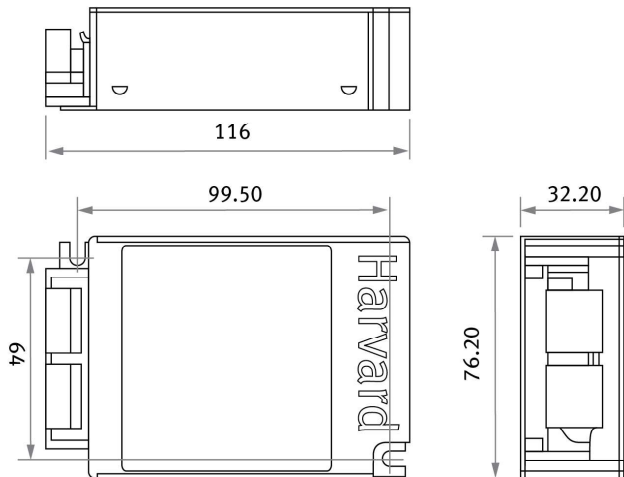
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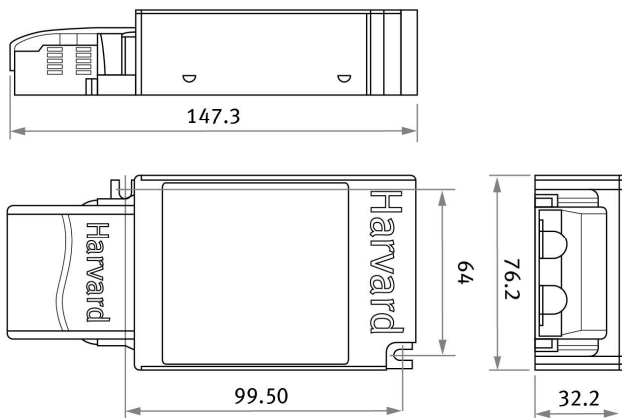


Dimensions

B Style



C Style

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