

CL

CoolLED LED Drivers



CoolLED

CLK33 Switchable UNI

Up to 33W

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

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

The power factor corrected, class II driver has fully isolated, SELV/Class2 output delivering up to 33W of power.

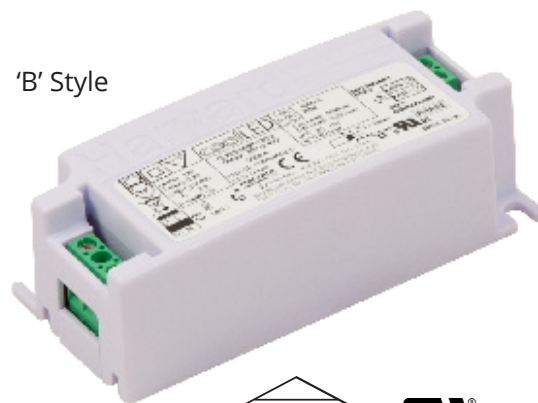
CoolLED Kompact switchable drivers have all the features of the CoolLED range with the added benefit of a reduced sized compact footprint. The driver is controlled by a switch, accessible during installation, that allows users to select between full and half rated output current.

All CoolLED drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in Integral (B) and (A) Flying lead style.

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

These drivers include a "soft dim" feature to avoid sudden steps in LED brightness.

'B' Style



Key Facts

- Universal input voltage 120V to 277V
- Power factor corrected (0.98)
- Self resetting thermal trip
- Double insulated (Class II)
- Surge protection up to 4kV
- Up to 87% efficient
- SELV/Class 2 isolation

Wiring diagram



*All information is subject to change at our discretion

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CLK33 S UNI P1/4 LS V1

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Technical specification

Mains input voltage	120 - 277V ac rms +/-5%
Mains frequency	47 - 63Hz
Mains surge protection	4kV common-mode 2kV differential
Input-output isolation	3.75kV 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
Dimming Range	100% - 5%
Terminal blocks	Rising clamp 10mm pitch input, 5mm pitch output
Enclosure	White polycarbonate UL94-V0 rated
Wire size	16-24 AWG / 0.5mm ² to 1.5mm ²

Variants

Part number	Current	Current Ripple	LED String Voltage	Output power range	Power factor at full load	Efficiency at full load
CLK33-700S-UNI-A/B	350mA & 700mA +/-5%	48V output = 7.5%	9V to 48V	350mA = 3 - 17W 700mA = 6 - 34W	>0.95 (0.98 typical)	87% typical
CLK33-1000S-UNI-A/B	500mA & 1000mA +/-5%	33V output = 14.5%	9V to 48V (33V @ 1000mA)	500mA = 4 - 24W 1000mA = 9 - 33W	>0.95 (0.98 typical)	87% typical
CLK33-1000S2-UNI-A/B	700mA 1000mA +/-5%	33V output = 14.5%	10.8V to 40V (33V @ 1000mA)	700mA = 6 - 28W 1000mA = 9 - 33W	>0.95 (0.98 typical)	87% typical

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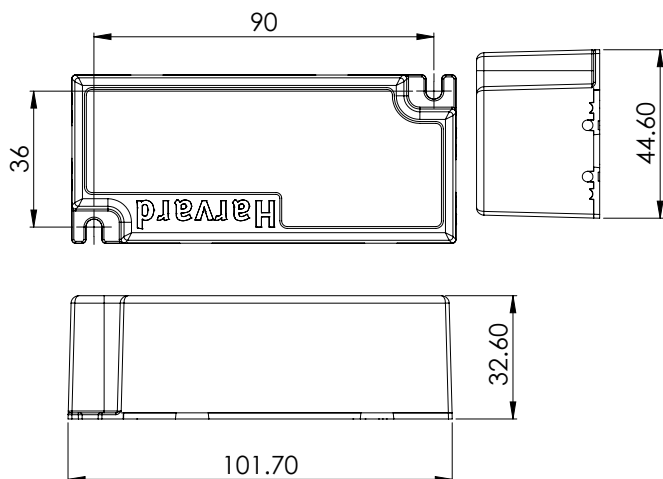
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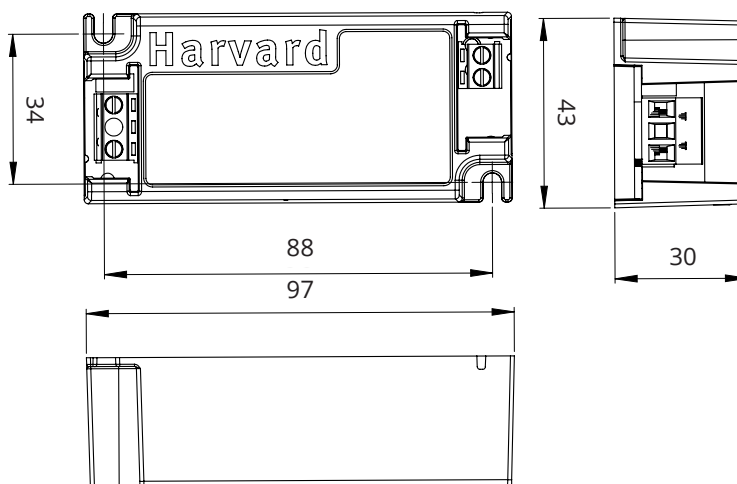
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Dimensions

A Style



B Style



Case Style	Dimensions	Weight	Box Quantity
A - Flying leads	101.70mm x 32.60mm x 44.60mm	220g	55
B - Integral	97mm x 30mm x 43mm	152g	55

Tolerance: + or - 0.3mm

Compliance

Approval	Standards
UL	UL8750 UL1310 FCC

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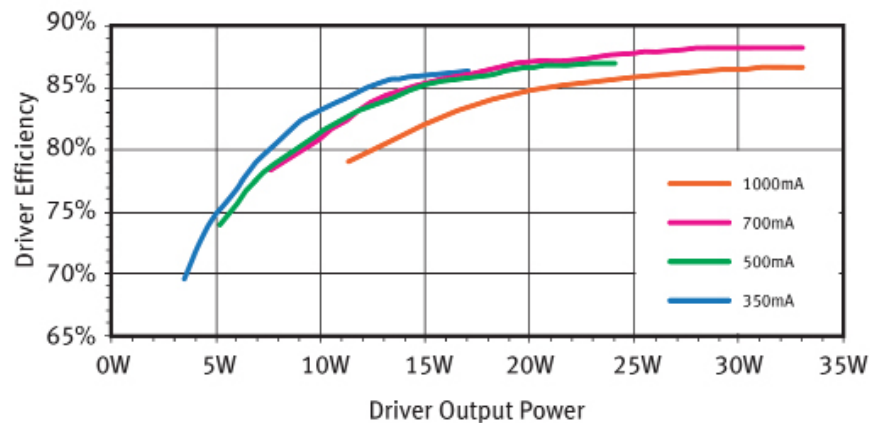
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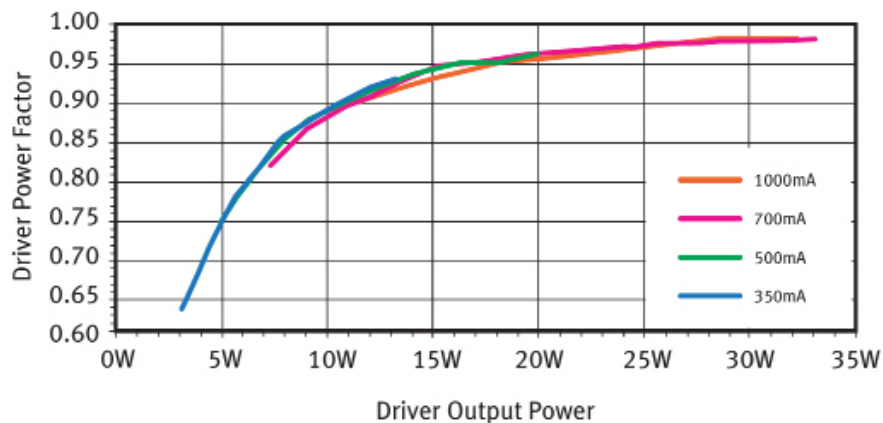


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Efficiency Vs Outout Power



Power Factor Vs Outout Power



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