

CL50 Optional DualDim and Fan Output

Up to 50W

700mA, 900mA, 1000mA, 1200mA 1400mA & 1500mA

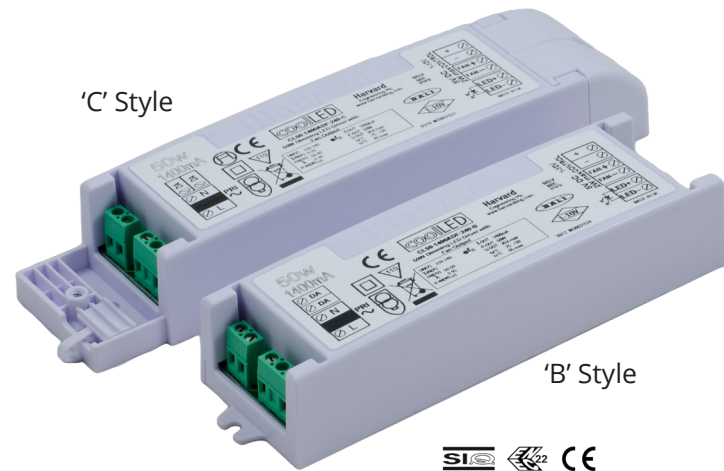
CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply.

With optional Analogue and DALI Dimming to 5% of maximum output current

Harvard's most advanced LED drivers give end users industry leading efficient control of their LED lighting systems. The first CoolLED driver in 'Dual Dim' product portfolio to be released

The power factor corrected, class II driver has fully-isolated, SELV output delivering up to 50W of power

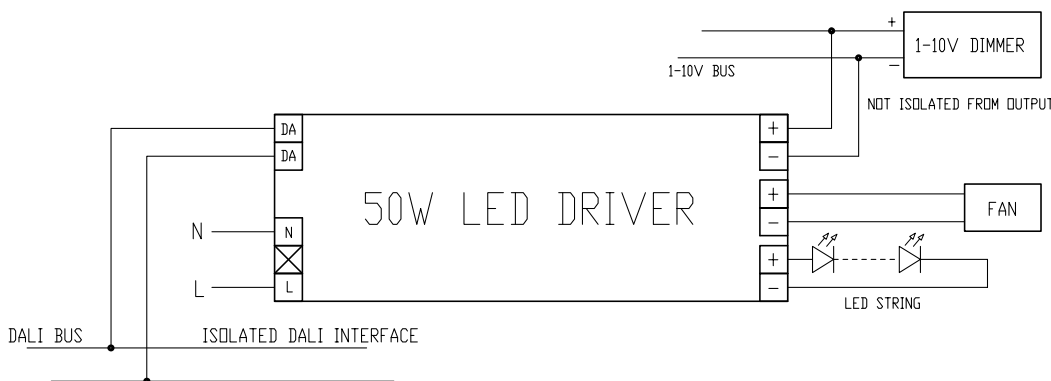
Fan Output Option - Auxiliary 5V or 12V 2W output suitable for powered fans.



Key Facts

- 220V - 240V Input voltage
- Power factor corrected (0.98)
- 700mA/900mA /1000mA/ 1200mA/ 1400mA/ 1500mA constant current output
- Self resetting thermal trip
- 88% efficient
- Surge protection up to 4kV
- SELV Isolation
- Optional 5V/12V 2W fan output
- Dual Dim gives flexibility

Wiring diagram



*All information is subject to change at our discretion

** For custom variants please consult a sales representative

Technical specification

Mains input voltage	220 to 240V ac RMS Nominal
Mains frequency	47 - 63Hz
Mains surge protection	4kV common-mode 2kV differential
Input-output isolation	3 kV ac rms
Humidity	95% max non-condensing
Thermal trip	110°C - internal self-resetting
Ambient temperature range	-25°C to 50°C
Humidity	95% max non-condensing
Standby Power (DALI only)	0.37W
Dimming range	Down to 5% of maximum output current (dimming versions only)
Terminal blocks	Rising clamp 10mm pitch input 5mm pitch output
Enclosure	White polycarbonate UL94-V0 rated (B & C style)
Fan output voltage	(factory set) 5V or 12V (+/-5%) and 2W Max

Variants

Part number	Current	LED String Voltage	Maximum Tc temperature	Output power range	Power factor at full load	Efficiency at full load
CL50-700AD-240-B/C	700mA	24V to 58V (24V - 48V with fan)	85°C	17 - 40w	>0.95	88% Typical
CL50-700AD/F/F12-240-B/C	700mA	24V to 58V	85°C	17 - 40w	>0.95	88% Typical
CL50-900ADF/F12-240-B/C	900mA	24V to 48V	85°C	21.6 - 45w	>0.95	88% Typical
CL50-1000F/F12-240-B/C	1000mA	24V to 48V	85°C	24 - 48w	>0.95	88% Typical
CL50-1000ADF/F12-240-B/C	1000mA	24V to 48V	85°C	24 - 48w	>0.95	88% Typical
CL50-1200F/F12-240-B/C	1200mA	20V to 42V	85°C	24 - 50w	>0.95	88% Typical
CL50-1200ADF/F12-240-B	1200mA	20V to 42V	85°C	24 - 50w	>0.95	88% Typical
CL50-1400F/F12-240-B/C	1400mA	18V to 36V	85°C	25 - 50w	>0.95	88% Typical
CL50-1400ADF/F12-240-B/C	1400mA	18V to 36V	85°C	25 - 50w	>0.95	88% Typical
CL50-1500D-240-B/C	1500mA	18V to 33V	90°C	27 - 50W	>0.95	88% Typical

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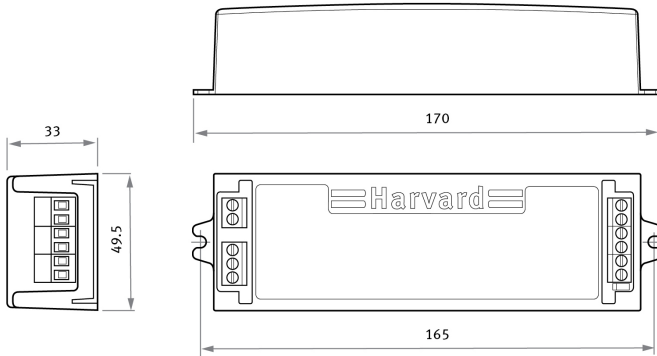
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CL CoolLED LED Drivers

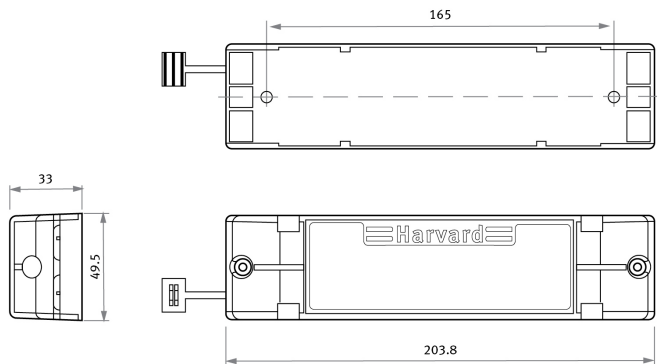
CoolLED

Dimensions

B Style



C Style



Case Style	Dimensions	Weight	Box Quantity
B - Integral	114mm x 47.5mm x 32mm	225g	40
C - Remote	144mm x 47.5mm x 32mm	225g	40

Tolerance: + or - 0.3mm

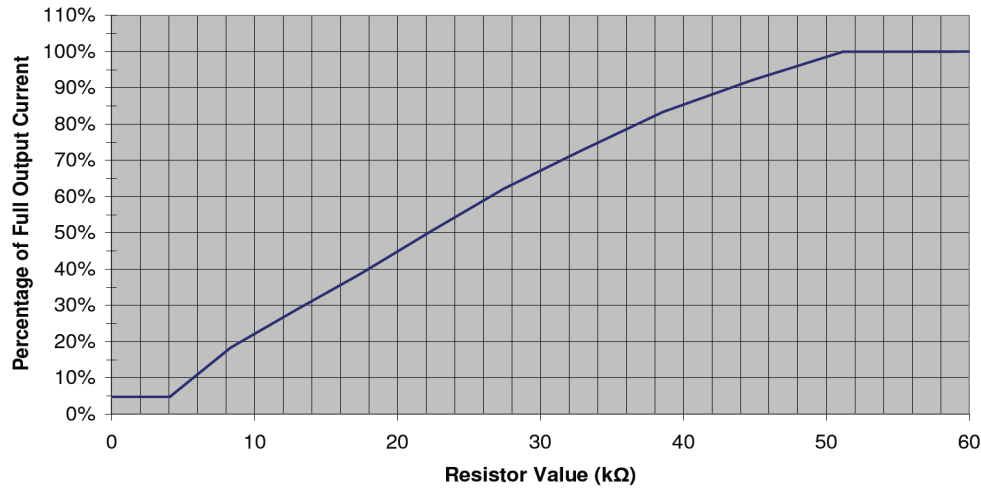
Compliance

Approval	Standards
ENEC	EN62384, EN62386-207, EN61347-2-13, EN61000-3-2, EN61000-3-3, EN61547 & EN55015

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Current Setting by Resistor



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