





LED DRIVERS

CLK20 Phase Cut Mains Dimmable

Up to 20W

260mA, 350mA, 400mA, 500mA, 700mA, 1050mA & 1400mA

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

The power factor corrected, class II driver has a fully isolated, SELV output delivering up to 20W of power.

The driver employs new advanced technology providing support for both Leading Edge & Trailing Edge Phase Cut dimmers, with a high efficiency & low LED ripple current.

The high efficiency allows operation in 50°C ambient. The compact enclosure is available in Integral (B) & Remote (C) version.

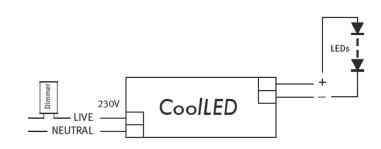
CoolLED Drivers are open and short-circuit protected and have self-resetting over temperature trip.



Product Description

- 220-240 Input Voltage
- Isolated SELV output
- · Leading Edge (TRIAC) Phase Cut Dimming
- · Trailing Edge (IGBT) Phase Cut Dimming
- 83% efficiency
- Surge protection up to 4kV
- Power factor corrected (0.95)
- · Constant current output
- Dimming from <3% to 100% (dependent on dimmer performance)
- Low LED Ripple Current less than 5% pk/pk and less than 1% rms
- · Self resetting thermal trip
- Double insulated (Class II)

Wiring diagram











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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	3.75kV ac rms		
Mains inrush current	45A peak decaying over 20us		
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		
LED ripple current (at full load)	<10% peak to peak (<5% RMS)		
Terminal blocks	Rising clamp 5mm Pitch		
Enclosure	White polycarbonate UL94-V0 rated		
Wire size	0.5mm to 1.5mm ²		

Case Style	Dimensions	Weight	Box Quantity	
B - Integral	97mm x 43mm x 30mm	75g	55	
C - Remote	141mm x 43mm x 30mm	95g	55	

Tolerance: + or - 0.3mm

Variants

Part number	Current	LED String Voltage	Output power range	Off Load Voltage	Power factor at full load	Efficiency at full load
CLK20-260P-240-B/C	260mA (<u>+</u> 8%)	30V to 52V	7.8W - 13.5W	60V max	0.92 typical	80% typical
CLK20-350P-240-B/C	350mA (<u>+</u> 8%)	30V to 52.5V	10W - 18.2W	60V max	0.95 typical	82% typical
CLK20-400P-240-B/C	400mA (<u>+</u> 8%)	27V to 44V	10.8 - 17.6W	58V max	0.95 typical	82% typical
CLK20-500P-240-B/C	500mA (<u>+</u> 8%)	20V to 40V	10W - 20W	50V max	0.95 typical	83% typical
CLK20-700P-240-B/C	700mA (<u>+</u> 8%)	14V to 28.5V	9.8W - 20W	36V max	0.95 typical	83% typical
CLK20-1050P-240-B/C*	1050mA (<u>+</u> 8%)	10V to 19V	10.5 - 20W	25V max	0.95 typical	80% typical
CLK20-1400P-240-B*	1400mA (<u>+</u> 8%)	7V to 13V	9.8W - 18W	21V max	0.95 typical	75% typical

^{*}CE compliant only

Compliance

Approval	Standards
CE (Europe)	LVD:2014/35/EU; EMC:2014/30/EU; RoHS:2011/65/EU;ECOD/2009/125/EC
ENEC (Europe)	EN61347-1:2008+A1:2011+A2:2013, EN61347-2-13:2014, EN62384:2006+A1:2009
CB (International)	IEC 61347-1:2007 (second edition)+A1:2010 +A2:2012; IEC 61347-2-13:2014 (second edition); IEC 62384:2006 (first edition)+A1:2009
RCM (Australia/NZ)	AS/NZS 61347.1; AS/NZS 61347.2.13:2013; ASNZS-CISPR15; ASNZS 4417.1











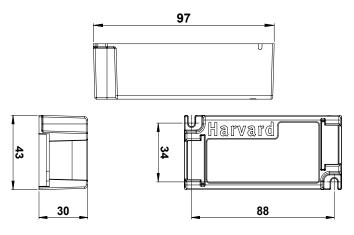




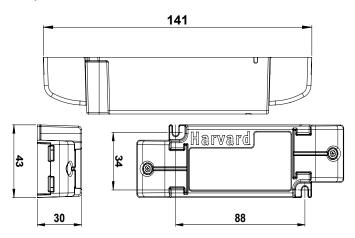
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Dimensions

B Style



C Style



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