

CoolLED

LED DRIVERS

CLS 90

Up to 91W

220, 350, 400, 500, 600 & 700mA

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

The power factor corrected, class I driver is non isolated, delivering up to 91W of power.

All CoolLED Drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in integral (B) versions.

CoolLED Drivers are open and short-circuit protected and have a over temperature fold back. Corridor function built in on DALI version. 10% or 25% switch selectable dim mode.



Product Description

- 220 - 240V
- Touch Dim, DALI, Non Dim or Analogue
- Switchable & non switchable versions
- Programmable output current (DALI Version)
- Hazardous voltage output
- Power factor corrected (0.95)
- Constant current output
- Over temperature foldback
- Non isolated
- Push wire terminal blocks
- Up to 93% efficiency
- Surge protection up to 4kV
- Low standby power (<0.4W)

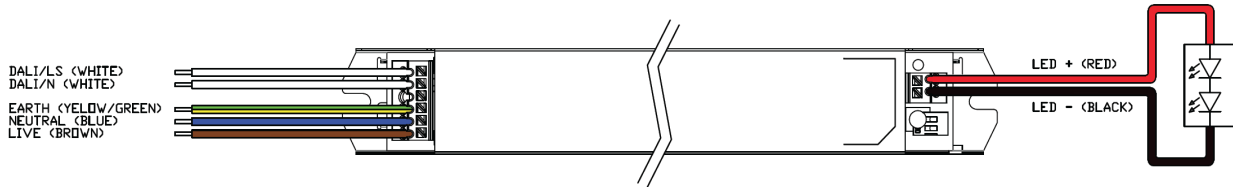
LOW
Flicker**Harvard Power Systems Limited**

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Wiring diagram



Technical Specification

Mains input voltage	220 - 240V AC rms Nominal
Mains frequency	47- 63Hz
Mains surge protection	4kV common-mode 2kV differential Class 4
Input-output isolation	Non isolated
Humidity	95% max non-condensing
Switch on time	<0.25 (0.6s DALI version)
Maximum output to earth voltage	420V rms
Ambient temperature range	-25°C to 50°C
Maximum Tc temperature	80°C
Ripple	<3%
Input power when output is off	<0.4W
Dimming range	100 - 1% (DALI only)
Terminal blocks	Push wire
Enclosure	Zintec steel
Wire size	0.5mm to 1.5mm ²
Lifetime	100,000 hours @ TC-10

Case Style	Dimensions	Weight	Box Quantity
B - Integral	280mm x 30mm x 21mm	240g	40

Tolerance: + or - 0.5mm

Compliance

Approval	Standards
ENEC	EN 61347-1:2008 +A1:2011 +A2:2013, EN 61347-2-13:2014, EN 62384:2006 +A1:2009 EN 61547: 2009, EN 50015: 2013, EN 61000-3-2:2006 +A1:2009 +A2:2009, EN 61000-3-3:2013

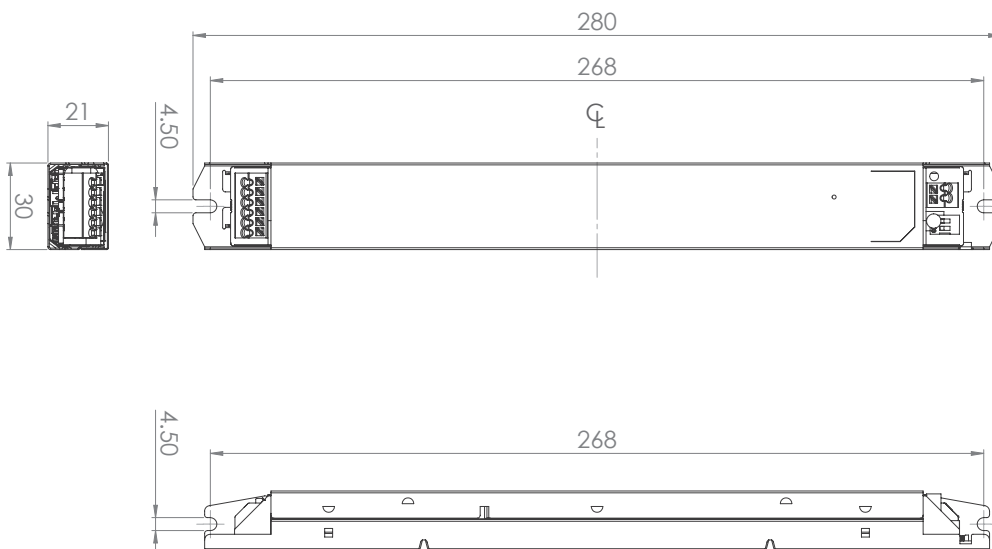


Variants

	Part number	Current (±5%)	LED String Voltage	Output power range	Typical off load voltage	Power factor at full load	Efficiency at full load
Non Dim	CLS90-500S2-240-B-NI	220mA	66 - 182V	15 - 40W	189V	0.95	93%
		350mA		23 - 64W			
	CLS90-700S2-240-B-NI	400mA	60 - 130V	28 - 73W	135V	0.95	92%
		500mA		33 - 91W			
		600mA		24 - 52W			
		700mA		30 - 65W			
	CLS90-500S2D-240-B-NI	220mA	66 - 240V	15 - 53W	247V	0.95	93%
		350mA	66 - 240V	23 - 84W	247V		
		400mA	66 - 220V	26 - 88W	226V		
		500mA	66 - 182V	33 - 91W	190V		
	CLS90-700S2D-240-B-NI	400mA	60 - 227V	24 - 91W	232V	0.95	92%
		500mA	60 - 182V	30 - 91W	187V		
		600mA	60 - 151V	36 - 91W	156V		
		700mA	60 - 130V	42 - 91W	135V		
	CLS90-700S2A-240-B-NI	400mA	60 - 130V	24 - 52W	135V	0.95	92%
		500mA		30 - 65W			
		600mA		36 - 78W			
		700mA		42 - 91W			

*DALI variant includes Touch Dim & Corridor function.

Dimensions



PLEASE NOTE

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