

Harvard Technology

CoolLED

LED DRIVERS

CLS40 High Voltage Non-Isolated

Up to 44W

200mA, 250mA, 300mA, 325mA & 350mA

CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply. Non Dim, DALI and Analogue versions available

The power factor corrected, class I driver is non isolated, delivering up to 44W 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% switch selectable dim mode.



Product Description

- Universal Input voltage
- Touch Dim, DALI, Non Dim or Analogue
- Hazardous voltage output
- Power factor corrected (0.95)
- Constant current output
- Over temperature foldback
- Non isolated
- Push wire terminal blocks
- Up to 92% efficient
- Surge protection up to 4kV
- Low standby power (<0.4W)

LOW
Flicker



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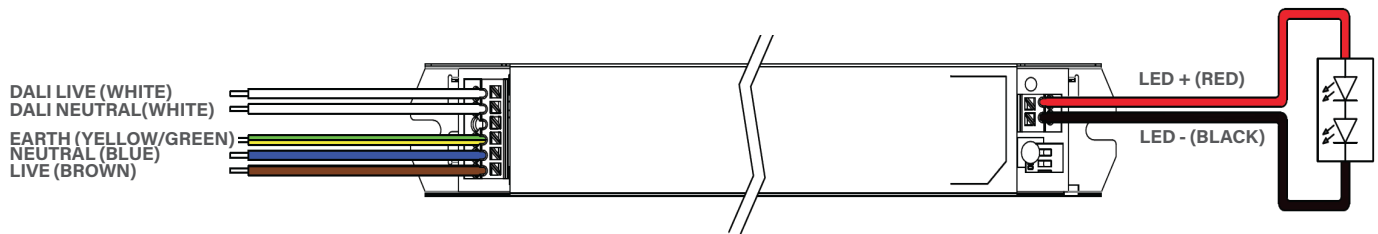
EU - Tyler Close, Normanton, Wakefield, WF6 1RL, UK Tel: +44 (0)113 383 1000 Fax: +44 (0)113 383 1010

USA - 9171 Towne Centre Drive, Suite #330, San Diego, California, 92122 Tel: (858) 882 - 3844

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LED
SOLUTIONS

Wiring diagram



Technical Specification

Mains input voltage	120 / 220 - 240 / 277V Vac RMS
Maximum Input Range	108 - 305 Vac RMS
Mains frequency	50 - 60Hz
Mains surge protection	4kV common-mode 2kV differential Class 4
Input-output isolation	Non isolated
Humidity	95% max non-condensing
Switch on time	<0.25s (0.65 DALI version)
Maximum output to earth voltage	420v RMS
Ambient temperature range	-25°C to 50°C
Maximum Tc temperature	80°C
Ripple	<2% (IEEE1789:2015 compliant with NO RISK category)
Input power when output is off	<0.4W (DALI only)
Dimming range	100 - 1%
Terminal blocks	Push wire
Enclosure	Zintec Steel
Wire size	0.5mm to 1.5mm ²

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 55015:2013, EN 61000-3-2:2006 +A1:2009 +A2:2009, EN 61000-3-3:2013

* ENEC approval only between 220-240V input voltage





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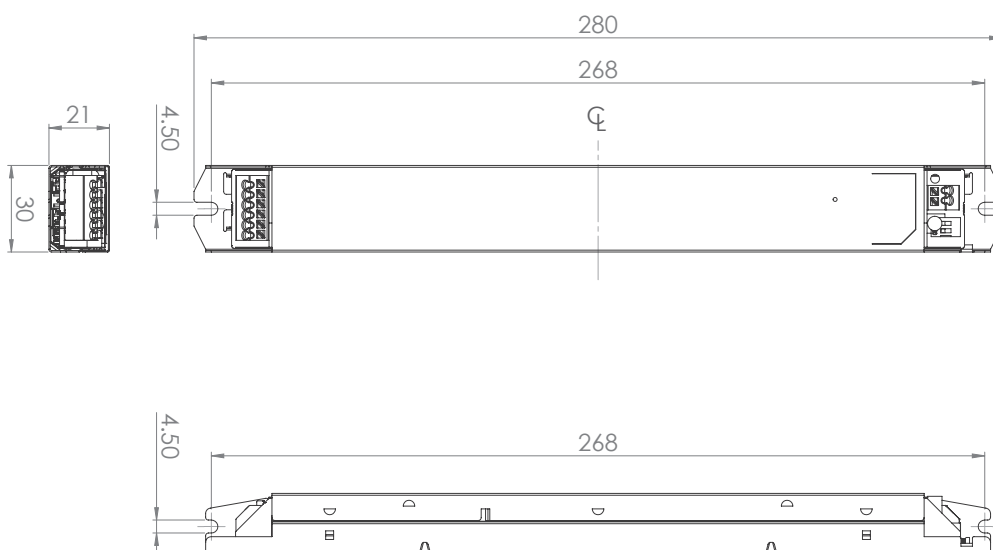


Variants

	Part number	Current	LED String Voltage	Output power range	Maximum off load voltage	Power factor at full load	Efficiency at full load
Non Dim	CLS40-350S2-UNI-B-NI	200mA	40-125V	200mA: 8 - 25W	130V	120v @ 0.99 277v @ 0.77	92%
		250mA		250mA: 10 - 31.25W			
		300mA		300mA: 12 - 37.5W			
		350mA (±5%)		350mA: 14 - 43.75W			
	CLS40-350S2D-UNI-B-NI	200mA	40-220V	200mA: 8 - 44W	255V	120v @ 0.99 277v @ 0.77	92%
		250mA	40-175V	250mA: 10 - 43.75W	180V		
		300mA	40-145V	300mA: 12 - 43.5W	150V		
		350mA (±5%)	40-125V	350mA: 14 - 43.75W	130V		
	CLS40-325D-240-B-NI	325mA (±5%)	60-135V	19.5 - 44W	140V	120v @ 0.99 277v @ 0.77	92%
		CLS40-350S2A-UNI-B-NI	200mA	40-125V	200mA: 8 - 25W	130V	120v @ 0.99 277v @ 0.77
250mA	250mA: 10 - 31.25W						
300mA	300mA: 12 - 37.5W						
350mA (±5%)	350mA: 14 - 43.75W						

* Only DALI variant includes Touch Dim & Corridor function.

Dimensions



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