

CL

CoolLED LED Drivers



CoolLED

Preliminary Datasheet

CLS40 LED Drivers

Up to 44W

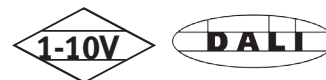
200/250/300/350mA & 325mA

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.

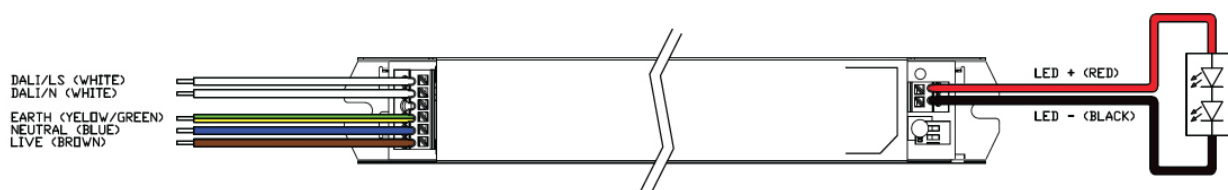
CoolLED Drivers are open and short-circuit protected and have a over temperature fold back. Corridor function built in on DALI version. 10% switch selectable dim mode.



Key Facts

- 120 - 277V 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)

Wiring diagram



*All information is subject to change at our discretion

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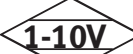
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CLS: CLS40: P1/3 V1 JO

Technical specification

Mains input voltage	120-277V ac RMS Nominal
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 for DALI versions)
Maximum output to earth voltage	420v RMS
Ambient temperature range	-20 °C to 50 °C
Maximum Tc temperature	80 °C
Typical ripple current	<2%
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

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 250mA 300mA 350mA (±5%)	40-125V	200mA: 8 - 25W 250mA: 10 - 31.25W 300mA: 12 - 37.5W 350mA: 14 - 43.75W	130V	>0.95	92%
	CLS40-350S2D-UNI-B-NI	200mA 250mA 300mA 350mA (±5%)	40-220V 40-175V 40-145V 40-125V	200mA: 8 - 44W 250mA: 10 - 43.75W 300mA: 12 - 43.5W 350mA: 14 - 43.75W	255V 180V 150V 130V	>0.95	92%
	CLS40-325D-240-B-NI	325mA (±5%)	60-135V	19.5 - 44W	140V	0.95	92%
	CLS40-350S2A-UNI-B-NI	200mA 250mA 300mA 350mA (±5%)	40-125V	200mA: 8 - 25W 250mA: 10 - 31.25W 300mA: 12 - 37.5W 350mA: 14 - 43.75W	130V	>0.95	92%

* Only DALI variant includes Touch Dim & Corridor function.

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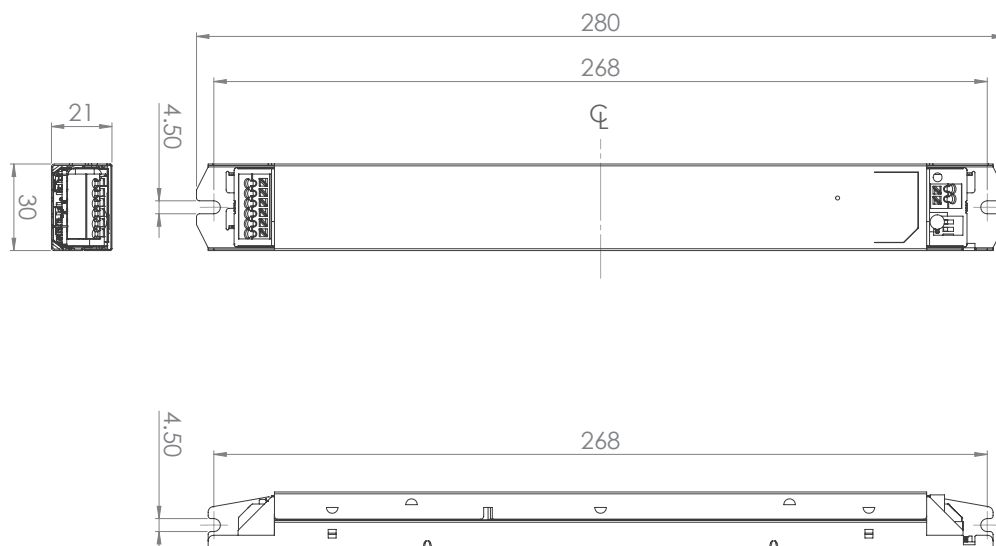
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Dimensions



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

Tolerance: + or - 0.5mm

Compliance

Approval	Standards
ENEC	EN 61347-1:2008/A1:2011, EN 61347-1:2008/A2:2013, EN 61347-1:2008, EN 61347-2-13:2014, EN62384:2006/A1:2009, EN62384:2006

* ENEC approval only between 220-240V input voltage

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