

# **12V/24V Constant Voltage LED Driver**

## **Non-Dimmable**

## **Installation Guide**

**Please retain for future reference**

### **Models**

<b>ILDRCVA042</b>	<b>79-89-94</b>	<b>(20W 12VDC)</b>
<b>ILDRCVA041</b>	<b>99-51-39</b>	<b>(40W 12VDC)</b>
<b>ILDRCVA043</b>	<b>84-03-26</b>	<b>(50W 12VDC)</b>
<b>ILDRCVA044</b>	<b>14-89-40</b>	<b>(75W 12VDC)</b>
<b>ILDRCVA045</b>	<b>10-13-70</b>	<b>(100W 12VDC)</b>
<b>ILDRCVA046</b>	<b>12-15-64</b>	<b>(20W 24VDC)</b>
<b>ILDRCVA047</b>	<b>49-56-44</b>	<b>(75W 24VDC)</b>
<b>ILDRCVA048</b>	<b>63-93-49</b>	<b>(100W 24VDC)</b>



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**Compliant to: EMC EC 2014/30/EU, LVD EC 2014/35/EU**



integral™  
**LED**

**IP20**

PLEASE READ BEFORE USE

## Constant Voltage 12V/24V LED Driver Installation Guide



**RISK OF ELECTRICAL SHOCK. ALWAYS SWITCH OFF POWER AT THE MAINS BEFORE INSTALLING OR MAINTAINING THIS LED DRIVER**

### IMPORTANT NOTICE

- This LED driver should be installed according to the instructions in this guide and by a qualified electrical installer. All electrical work must be completed in accordance with the latest IET regulations (formally IEE) for the UK and in accordance with all applicable regulations and laws in the country in which it being installed.
- Always SWITCH OFF the power at the mains when installing, adjusting or maintaining the LED driver.
- The LED Driver must be installed in indoor dry areas only, avoid any contact with moisture or water and protect against excessive heat and allow adequate ventilation (operating temperatures: -20° C to + 45° C).
- Observe the correct wiring and polarity for INPUT (primary) (200~240V AC 50Hz/60Hz) and OUTPUT (secondary) (12V/24V DC). Errors in connecting the device can lead to irreparable damage or personal injury.
- An electronic protection circuit will switch OFF the power supply internally in case of a short/open circuit or overload on the 12V/24V output circuit. Once faults are corrected the LED driver will reset automatically.
- Do NOT dismantle the driver; there are NO user-serviceable parts inside.
- This LED driver is Non-Dimmable – Do NOT install in a dimmable circuit.

### FOR THE BEST PERFORMANCE AND TO AVOID ANY DAMAGE TO THE DRIVER OR CONNECTED DEVICES

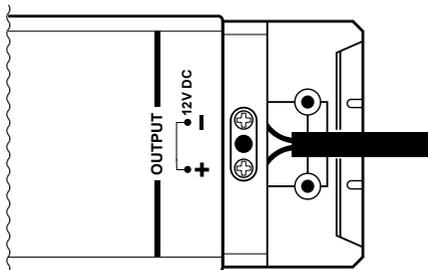
- This is a SWITCH MODE 12V/24V DC CONSTANT VOLTAGE LED Driver – It must ONLY be used with suitable CONSTANT VOLTAGE LED LAMPS or STRIPS. Do NOT use with NON-LED devices. Ensure a suitable load is connected.
- Connected loads to the 12V/24V OUTPUT should be connected in PARALLEL only.
- To allow for power variation in installations, the connected load wattage should be up to 80%-90% of wattage of the LED driver. Do NOT overload the LED driver.
- Before mounting the driver, determine a suitable and safe installation position (see Fig 3) and consider how the driver will be switched ON and OFF.
- To maintain EMC compliance the output cable to LED devices should not exceed 2M in length.

### INSTALLING THE LED DRIVER

1. Switch the power OFF at the mains.
2. Unscrew and remove the connector covers.
3. Connect the 12V/24V load wires on the OUTPUT (secondary) side – Ensure the correct polarity. (see Fig 1).
4. Connect the mains supply wires to the INPUT (primary) side – Ensure the correct polarity. (see Fig 2).
5. Check connections are secure and that there are no loose strands. Screw down the connector covers ensuring the outer wire insulation is held under the cord grip.

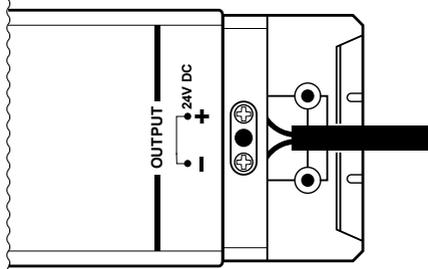
6. When the circuit has been safety tested, switch ON power and confirm operation.
7. Once the position and functionality is confirmed. Switch OFF the power at the mains and mount the LED driver if required using suitable fixings (not supplied).

**Fig 1** OUTPUT (secondary) 12V/24V DC load



**Models:**

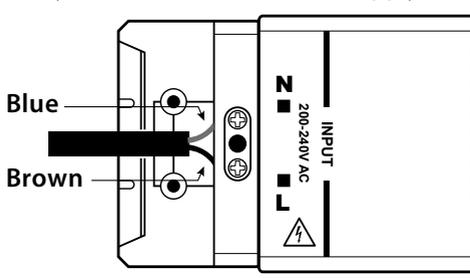
ILDRCVA041	(40W 12VDC)
ILDRCVA045	(100W 12VDC)
ILDRCVA048	(100W 24VDC)



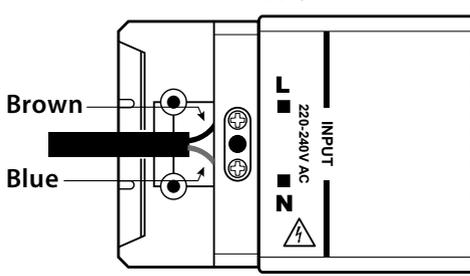
**Models:**

ILDRCVA042	(20W 12VDC)
ILDRCVA043	(50W 12VDC)
ILDRCVA044	(75W 12VDC)
ILDRCVA046	(20W 24VDC)
ILDRCVA047	(75W 24VDC)

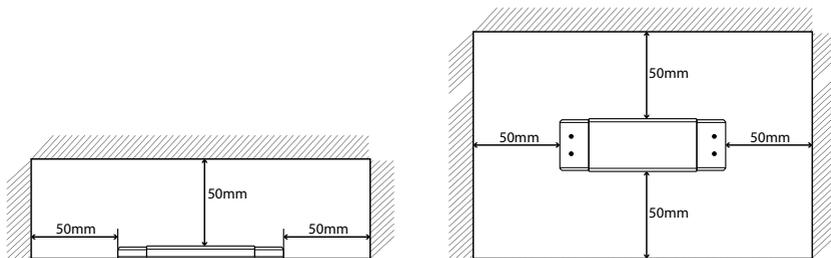
**Fig 2** INPUT (primary) 200-240V AC (50/60Hz) Supply on 20W/50W/75W



**INPUT** 220-240V AC (50/60Hz) Supply on 100W



**Fig 3** Mounting Location



**SPECIFICATIONS:**

Model No	Input Voltage (AC)	Type	Input Current	Output Voltage (DC)	Maximum Output Current	Max Power Rating	IP Rating
ILDRCVA042	200-240V AC, 50/60Hz	Constant Voltage	<0.23A	12V DC	1.67A	20W	IP20
ILDRCVA041	200-240V AC, 50Hz		<0.30A	12V DC	3.33A	40W	
ILDRCVA043	200-240V AC, 50/60Hz		<0.30A	12V DC	4.2A	50W	
ILDRCVA044	200-240V AC, 50Hz		<0.50A	12V DC	6.25A	75W	
ILDRCVA045	220-240V AC, 50/60Hz		<0.7A	12V DC	8.33A	100W	
ILDRCVA046	200-240V AC, 50/60Hz		<0.23A	24V DC	0.83A	20W	
ILDRCVA047	200-240V AC, 50/60Hz		<0.5A	24V DC	3.13A	75W	
ILDRCVA048	220-240V AC, 50/60Hz		<0.7A	24V DC	4.17A	100W	

Model No	Ambient Temp Max(°C)	Case Temp Max(°C)	Recommended Input Cable Specification	Recommended Output Cable Specification
ILDRCVA042	+45° C	80° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA041		85° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA043		85° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA044		80° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA045		90° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H05VVH2-F 2x1.00mm <sup>2</sup>
ILDRCVA046		80° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA047		80° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H03VVH2-F 2x0.75mm <sup>2</sup>
ILDRCVA048		90° C	H03VVH2-F 2x0.75mm <sup>2</sup>	H05VVH2-F 2x1.00mm <sup>2</sup>



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**Limited 3 Year Warranty**

This LED driver is for indoor use only. Improper installation, abuse or miss-powering of the driver or failure to use the driver for its intended use will void the warranty. Proof of purchase is required for all returns. Your statutory rights remain unaffected.

Please see [www.integral-LED.com/warranty](http://www.integral-LED.com/warranty)

Questions? Please contact you supplier or see [integral-LED.com](http://integral-LED.com)

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