

SIRS-E®

60W UNIVERSAL DIMMING LED DRIVER CLASS 2 | 12V DC Model SE-CVMD-12V60W



INSTALLATION GUIDE

SIRS-E® 12V 60W Phase / TRIAC Constant Voltage Dimmable LED Driver

INTRODUCTION

The SIRS-E® 12V 60W Phase / TRIAC Constant Voltage Dimmable LED Driver provides reliable power and superior dimming performance for LED lighting applications. Follow this guide for proper installation and operation.

Access the SIRS-E® LED Driver Video content by scanning the QR code.



PRODUCT OVERVIEW

KEY FEATURES

- LED driver provides outstanding LED dimming performance, continuous smooth full-range flicker-free dimming.
- Compatible with Forward Phase, Magnetic Low Voltage, and TRIAC dimmers.
- Seamless dimming range from 0% to 100%.
- Designed to work with a wide range of MLV & ELV (forward phase / leading edge) TRIAC dimmers.
- Flicker-free, smooth dimming operation.
- Overload, short-circuit, and over-temperature protection with automatic restart.
- Suitable for indoor and outdoor (dry and damp) applications.
- Low-profile design for versatile installations.

For further assistance, contact SIRS-E® Customer Support at **(281) 324-0908** or refer to the product datasheet.

<https://sirs-e.us/contact-us>



TECHNICAL SPECIFICATIONS

Type: Constant Voltage	Dimming Range: 0-100%
Input Voltage: 100-130V AC	Dimensions: 180 x 60 x 35mm
Output Voltage: 12V DC, 5A Max	Weight: 1 lb 4 oz (0.45kg)
Rated Power: 60W	Certifications: ETL, cETL, FCC, Class 2, RoHS
Dimming Options: TRIAC, MLV, ELV, PWM	Warranty: 5 Years

VOLTAGE DROP CONSIDERATION

- Be aware of potential voltage drops when using long runs of LED strip lighting. Voltage drops can reduce brightness and uniformity. To minimize this, use thicker gauge wires or limit the total length of the LED strip connected to the driver.
- Ensure that the total wattage of the connected LED strips does not exceed the driver's maximum capacity of 60W. Exceeding the wattage may cause the LED strip to blink and could damage the driver.

SAFETY PRECAUTIONS

1. Disconnect power at the circuit breaker before starting installation.
2. If hardwiring is required, installation is recommended to be performed by a qualified electrician.
3. **Do not overload the driver.** Exceeding the maximum wattage of 60W can lead to performance issues, including blinking lights and potential damage to the driver.

TOOLS AND MATERIALS REQUIRED

- SIRS-E® 12V 60W LED Driver
- Compatible LED strip lights or fixtures
- Wire connectors
- Screwdriver
- Mounting hardware

INSTALLATION STEPS

Step 1: Prepare the Installation Area

1. Select a suitable location for installation, ensuring adequate ventilation and protection from excessive heat and moisture.
2. Confirm the location is free from obstructions and can support the weight of the LED driver.

Step 2: Mount the Driver

1. Secure the driver to the mounting surface using screws and appropriate mounting hardware.
2. Maintain a minimum clearance of 5 inches (127mm) around the driver for proper airflow.

Step 3: Wire the Input Connections

1. The driver includes an AC cord already installed on the input side, simplifying the connection process.
2. Route the AC cord to the power source.
3. For hardwire installations, connect the following wires:
 - **Live (Black):** Connect to the live wire of the 120VAC power source.
 - **Neutral (White):** Connect to the neutral wire of the power source.

Note: No ground wire is required.

Step 4: Wire the Output Connections

1. Route the LED fixture wires through the output knockouts.
2. Connect the output wires as follows:
 - **Red (+):** Connect to the positive wire of the LED strip or fixture.
 - **Black (-):** Connect to the negative wire of the LED strip or fixture.



Step 5: Connect the Dimming Controls (Optional)

1. If using a dimmer, connect the dimming control wires:
 - **Purple (+):** Connect to the positive dimmer wire.
 - **Grey (-):** Connect to the negative dimmer wire.
2. Ensure compatibility with TRIAC, Magnetic Low Voltage (MLV), or Electronic Low Voltage (ELV) dimmers for best performance. Use compatible dimmers designed for low-end range adjustment and flicker-free performance, ensuring reliable and smooth operation.

FINAL STEPS

1. Replace the wiring compartment cover and ensure all connections are secure.
2. Verify that the input voltage matches the driver's specifications (100-130V AC).
3. Power on the system and test the LED lighting and dimming functionality.

COMPATIBILITY

- This driver is fully compatible with SIRS-E StripFlexLED 12V LED Strips, ensuring optimal performance and seamless integration.
- It also supports other 12V DC LED lighting products; verify compatibility with the manufacturer's specifications.

TROUBLESHOOTING TIPS

1. **LEDs Do Not Illuminate:**
 - Check wiring connections.
 - Ensure the driver's output voltage matches the LED's voltage requirements.
 - Verify that the driver's load does not exceed 60W.
2. **Flickering or Flashing:**
 - Confirm compatibility of the dimmer.
 - Check for overcurrent or short circuits.
 - Ensure the total load is within the driver's rated capacity.

WARRANTY INFORMATION

This product is covered by a **3-year limited warranty**. For detailed warranty terms and conditions, please visit our website or contact our support team.

Thank you for selecting SIRS-E® 12V 60W Phase / TRIAC Constant Voltage Dimmable LED Driver. We are acements, or inquiries, visit www.sirs-e.us.



SIRS-E®

BRILLIANCE BORN IN THE USA

3307 West Street Rosenberg,
TX 77471, USA - (281) 324-0908

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