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› LEDMO 25W 12V DC Dimmable LED Driver Power Supply (Model 1401) - ETL Listed Instruction Manual

ledmo 1401

LEDMO 25W 12V DC Dimmable LED Driver Power Supply

MODEL: 1401

Instruction Manual

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1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your LEDMO 25W 12V DC Dimmable LED Driver Power Supply, Model 1401. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

The LEDMO Dimmable LED Driver is designed to provide a stable 12V DC constant voltage output, compatible with various LED lighting applications and most AC in-wall dimmers, including Lutron and Leviton models. It features smooth, flicker-free dimming from 0-100% and incorporates multiple safety protections.



Image 1: LEDMO 25W 12V DC Dimmable LED Driver Power Supply, Model 1401.

2. Safety Information

WARNING: Risk of electric shock. Installation should be performed by a qualified electrician in accordance with all applicable national and local electrical codes.

- Disconnect power at the circuit breaker before installing or servicing.
- Ensure all wiring connections are secure and properly insulated.
- Do not exceed the maximum wattage rating of 25W for this driver.
- This device is suitable for dry and damp locations. Do not expose to direct water spray or submersion.
- Ensure adequate ventilation around the driver to prevent overheating.
- The driver is equipped with Short Circuit, Over Loading, and Over Temperature protections. If a fault occurs, the power supply will automatically cut off output to prevent damage.

4. Specifications

Attribute	Value
Model Number	1401
Wattage	25W
Input Voltage	100-277VAC
Output Voltage	12V DC
Current Rating	2.08 Amps
Product Dimensions	15.49 x 5.33 x 2.01 cm
Weight	249 g
Power Source	AC mains
Mounting Type	Wall Mount
Certifications	ETL, RoHS

5. Setup & Installation

Before beginning installation, ensure the main power supply is turned off at the circuit breaker. This LED driver is designed for hardwired installations. Consult a qualified electrician if you are unsure about any steps.

5.1 Wiring Connections

- Input Wiring (AC 100-277V):** Connect the AC input wires from your power source (e.g., dimmer switch) to the input terminals of the LED driver. Typically, the black wire connects to 'L' (Live) and the white wire connects to 'N' (Neutral). Ensure the ground wire is properly connected if applicable.
- Output Wiring (DC 12V):** Connect the DC output wires from the LED driver to your 12V LED lighting fixture (e.g., LED strip lights, puck lights). Connect the red wire from the driver to the positive (+) terminal of your LED light and the black wire from the driver to the negative (-) terminal of your LED light.
- Secure Connections:** Use appropriate wire connectors (e.g., wire nuts, terminal blocks) to secure all connections. Ensure no bare wires are exposed.
- Mounting:** Mount the LED driver in a suitable dry or damp location, ensuring adequate airflow for cooling.

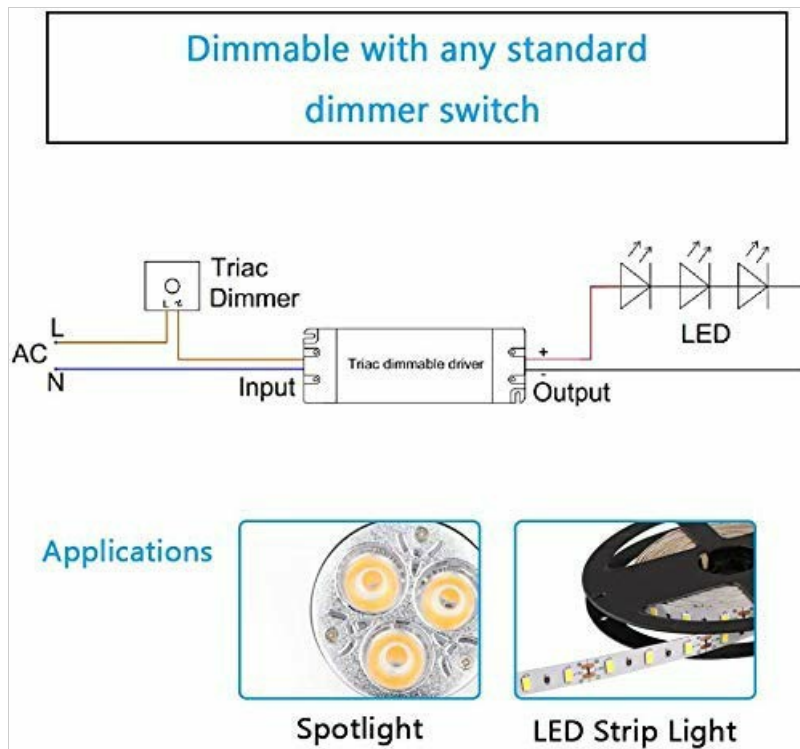


Image 3: Basic wiring diagram showing connections to a Triac dimmer and LED lights.

5.2 Installation Video Guide

For a visual demonstration of connecting a dimmable LED driver, please refer to the video below. While the video may feature a different wattage or brand, the general wiring principles for input, output, and dimmer connection are similar.

Video 1: Demonstration of Dimmable LED Driver wiring, including input, output, and dimmer connections. This video illustrates general wiring principles applicable to the LEDMO 1401 driver.

5.3 Applications

The LEDMO 12V DC Dimmable LED Driver is suitable for various low-voltage LED lighting applications, including:

- LED Strip Lights
- LED Downlights
- LED Spotlights
- LED Displays
- CCTV Cameras (requiring 12V DC)



Image 4: Examples of LED lighting applications compatible with the LEDMO Dimmable LED Driver.

6. Operating Instructions

Once properly installed and connected to a compatible AC in-wall dimmer, the LEDMO Dimmable LED Driver allows for adjustable brightness of your 12V LED lighting.

1. **Power On:** Turn on the main power supply to the circuit.
2. **Dimming Control:** Use the connected dimmer switch to adjust the light output from 0% (off) to 100% (full brightness). The driver is designed to provide smooth, flicker-free dimming across the entire range.
3. **Power Off:** To turn off the lights, either set the dimmer to its lowest setting or turn off the main power supply to the circuit.

Brightness Dimmable Control

Adjust the brightness levels



Turn on a bit

Turn on a half

Total turn on

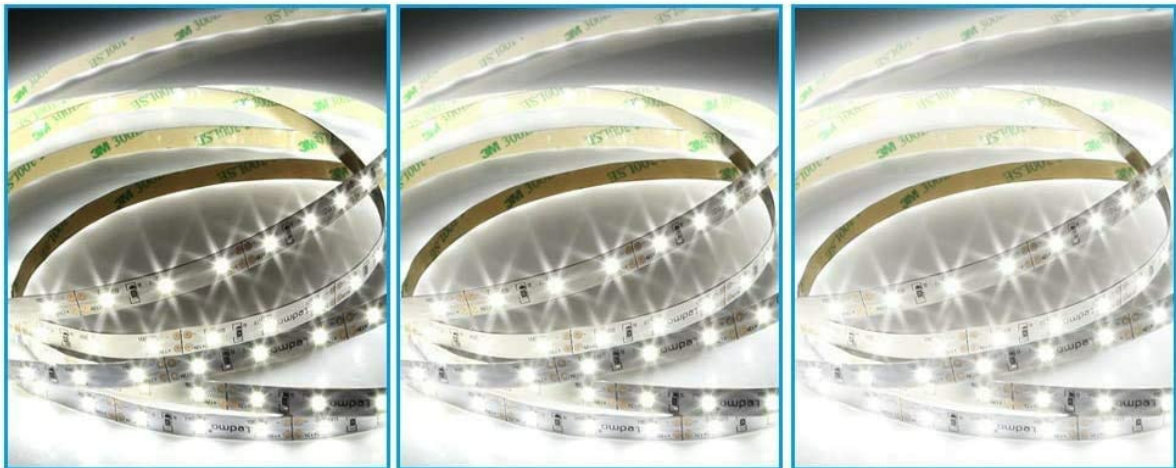


Image 5: Visual representation of dimming levels from 0% to 100% using a dimmer switch with LED strip lights.

7. Maintenance

The LEDMO Dimmable LED Driver is designed for long-term, maintenance-free operation. However, periodic checks are recommended:

- Ensure the driver is free from dust and debris to maintain proper cooling.
- Periodically check wiring connections for tightness and signs of wear or damage.
- Do not attempt to open or repair the driver. Refer all servicing to qualified personnel.

8. Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LED lights do not turn on.	No power to the driver, incorrect wiring, faulty LED fixture, driver fault.	Check power supply at the breaker. Verify all wiring connections (input and output). Test LED fixture with another known good power supply. If problem persists, driver may be faulty.
LED lights flicker or hum.	Incompatible dimmer, loose connections, overloaded driver.	Ensure dimmer is compatible with LED drivers (Triac/ELV). Check all wiring connections for tightness. Verify total wattage of LED lights does not exceed 25W.
LED lights are dim or not reaching full brightness.	Dimmer setting too low, overloaded driver, voltage drop in wiring.	Adjust dimmer to maximum setting. Verify total wattage of LED lights does not exceed 25W. Ensure appropriate wire gauge is used for the length of the run.
Driver is hot to the touch.	Overloaded, insufficient ventilation.	Ensure total wattage of LED lights does not exceed 25W. Provide adequate airflow around the driver. If overheating persists, discontinue use.

9. Warranty & Support

LEDMO provides a 5-year warranty covering maintenance or replacement for this product under normal use and service conditions. This warranty does not cover damage resulting from improper installation, misuse, abuse, or unauthorized repairs.

For technical support, warranty claims, or any questions regarding your LEDMO Dimmable LED Driver, please contact LEDMO customer service. Please have your model number (1401) and purchase information available when contacting support.