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› OSRAM OTI25W/120-277/1A2 DIM-1 LED Driver Instruction Manual

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Model: OTI25W/120-277/1A2 DIM-1

1. INTRODUCTION

The OSRAM OTI25W/120-277/1A2 DIM-1 is an electronic constant current LED driver designed for various lighting applications. This driver features 0-10V dimming capabilities, allowing for flexible light intensity control. It operates efficiently across a wide input voltage range of 120-277VAC and provides a maximum output power of 25W, making it suitable for a broad spectrum of LED installations.

2. SAFETY INFORMATION

Please read and understand all instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or other hazards. This device should be installed by a qualified electrician in accordance with all applicable national and local electrical codes.

- **Disconnect power** at the circuit breaker or fuse box before installing or servicing the driver.
- This is a **Class 2 power supply**.
- For connections, use wires rated a minimum of **90°C (194°F)** or equivalent.
- Use **AWG #16-20 GA solid copper wire only** for connections.
- A tool is required to release the wires from the terminals.
- Ensure proper grounding to prevent electric shock.
- This device complies with FCC 47 CFR Part 15.

3. PRODUCT OVERVIEW

The OSRAM OTI25W/120-277/1A2 DIM-1 LED Driver is designed for reliable and efficient performance. Key features include:

- Electronic LED Driver for constant current applications.
- 0-10V Dimmable functionality.
- Maximum output power of 25W.
- Output voltage range of 8-55Vdc.
- Wide input voltage range of 120-277VAC.

4. SETUP AND INSTALLATION

4.1 Mounting

The LED driver is designed for rack mount installation. Ensure the mounting location provides adequate ventilation to prevent overheating. Secure the driver firmly using appropriate fasteners.

4.2 Wiring Connections

Refer to the wiring diagram on the product label and the images below for correct connections. All wiring must comply with local and national electrical codes.



Figure 1: Product label showing wiring diagram and specifications. This image displays the product label of the OSRAM LED driver, detailing its model number, electrical specifications, and the wiring diagram for input, output, and dimming connections. It also shows safety certifications and wire stripping instructions.

Input Power Connections (120-277VAC)

- **L (Black):** Connect to the Line (hot) wire.
- **N (White):** Connect to the Neutral wire.
- **Green:** Connect to Earth Ground.



Figure 2: Input side connectors. This image shows the input side of the LED driver, featuring the terminals for AC power connection (Line, Neutral, Ground). The connectors are designed for secure wire insertion.

LED Output Connections (8-55Vdc)

- **LED+ (Red/Blue):** Connect to the positive terminal of the LED load.
- **LED- (Brown/Cafe):** Connect to the negative terminal of the LED load.

Dimming Control Connections (0-10V)

- **DIM+ (Gray/Gris):** Connect to the positive terminal of the 0-10V dimming control.
- **DIM- (Gray/Gris):** Connect to the negative terminal of the 0-10V dimming control.

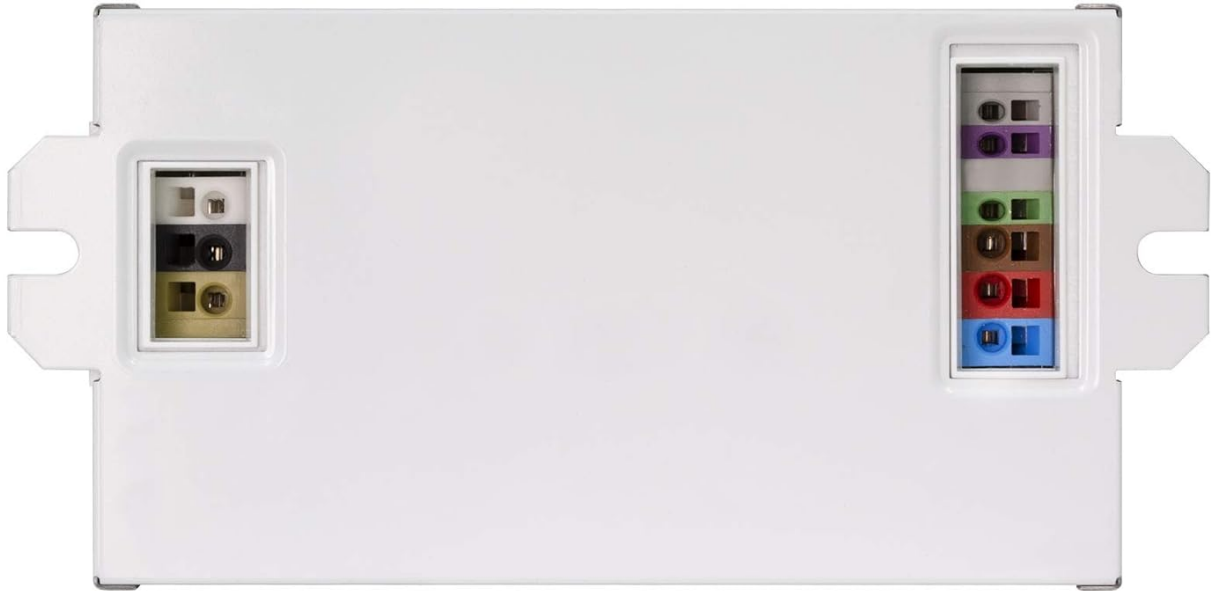


Figure 3: Output and dimming side connectors. This image displays the output side of the LED driver, including terminals for LED+ and LED- connections, as well as the DIM+ and DIM- terminals for 0-10V dimming control.

Wire Preparation

- Strip wires to a length of **9-9.5 mm** (approximately 0.35-0.37 inches) before inserting into the terminals.
- Ensure all connections are secure and properly insulated.



Figure 4: Top view of the LED driver. A top-down view of the LED driver, illustrating the placement of both the input power connectors on one end and the LED output and dimming control connectors on the other end.

5. OPERATING INSTRUCTIONS

Once properly installed and powered, the LED driver will supply constant current to the connected LED load. The dimming function is controlled via a 0-10V dimming signal.

- **0-10V Dimming:** Connect a compatible 0-10V dimmer to the DIM+ and DIM- terminals.
- A 10V signal typically corresponds to 100% light output.
- A 0V signal typically corresponds to the minimum dimming level (1%).
- Ensure the dimming control is properly wired and compatible with 0-10V dimming protocols.

6. MAINTENANCE

The OSRAM OTI25W/120-277/1A2 DIM-1 LED Driver is designed for long-term, maintenance-free operation. However, periodic checks can help ensure optimal performance and safety.

- **Power Disconnection:** Always disconnect power before performing any inspection or maintenance.

- **Cleaning:** Keep the driver free from dust and debris to ensure proper heat dissipation. Use a dry, soft cloth for cleaning.
- **Connections:** Periodically check wiring connections for tightness and signs of wear or damage.
- **Ventilation:** Ensure that the installation area maintains adequate airflow around the driver.

7. TROUBLESHOOTING

If the LED driver or connected lights are not functioning as expected, consider the following:

- **No Light Output:**
 - Verify that the input power supply (120-277VAC) is active.
 - Check all wiring connections (input, output, dimming) for proper polarity and secure contact.
 - Ensure the LED load is compatible with the driver's output voltage and current specifications.
 - Inspect the LED fixture for any internal faults.
- **Improper Dimming:**
 - Confirm the 0-10V dimmer is correctly wired to the DIM+ and DIM- terminals.
 - Verify the dimmer is functional and providing the correct 0-10V signal.
 - Check for any short circuits or open circuits in the dimming control wiring.
- **Flickering or Unstable Light:**
 - Ensure stable input voltage.
 - Check for loose connections.
 - Verify the LED load is within the driver's specified operating range.

If issues persist after checking these points, contact technical support.

8. SPECIFICATIONS

Detailed technical specifications for the OSRAM OTI25W/120-277/1A2 DIM-1 LED Driver:

Specification	Value
Model Number	OPTOTRONIC OTi25W/120-277/1A2 DIM-1
Input Voltage	120-277VAC
Output Voltage	8-55Vdc
Max Output Power	25W
Output Current	150-1250 mA
Dimming Protocol	0-10V Dimmable (100% - 1%)
Current Rating	1 Amps
Mounting Type	Rack Mount
Product Dimensions	5 x 2.4 x 1.2 inches (127 x 61 x 30.5 mm)
Weight	7.9 ounces (224 grams)

Specification	Value
Manufacturer	Osram
ASIN	B07VMY6466
Certifications	UL Listed, RoHS Compliant, FCC 47 CFR Part 15



Figure 5: Dimensional drawing of the LED driver. This technical drawing provides precise measurements of the LED driver, including its length, width, and height, along with the dimensions of its mounting tabs and connector blocks, all in millimeters.

9. WARRANTY AND SUPPORT

For technical assistance or service inquiries regarding your OSRAM LED driver, please contact:

Technical Assistance: Call 1-877-636-5267

Additional product information and documentation may be available on the official OSRAM website or through authorized distributors.

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