

OSRAM 79208

OSRAM OPTOTRONIC 180W LED Power Supply User Manual

Model: 79208

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your OSRAM OPTOTRONIC 180W Programmable Low Current Outdoor LED Power Supply, Model 79208. This highly efficient, constant current LED power supply is designed for outdoor applications and features programmability and dimming capabilities.

Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and servicing should only be performed by qualified personnel. Disconnect power before installation or servicing.

- Ensure the power supply is installed in compliance with all national and local electrical codes.
- Do not operate the power supply with damaged wiring or if the casing is compromised.
- This device is designed for outdoor applications but must be protected from direct water immersion.
- Verify input voltage (347-480V) matches the power supply's requirements before connection.
- High levels of line transient protection (6kV) are provided, but proper grounding is still essential.

3. PRODUCT FEATURES

The OSRAM OPTOTRONIC LED Power Supply offers advanced features for efficient LED lighting control:

- 180W output for outdoor LED applications.
- Programmable output current with 1mA resolution for precise LED load matching.
- Dimmable down to 10% using 0-10V dimmers.
- Programming can be performed without connecting the power supply to AC line voltage.
- Integrated 6kV line transient protection for enhanced durability in outdoor environments.

4. SETUP AND INSTALLATION

Installation of this LED power supply should be performed by a qualified electrician in accordance with all applicable electrical codes and standards.

1. **Power Disconnection:** Ensure all power to the installation area is disconnected at the circuit breaker before beginning any work.
2. **Mounting:** Securely mount the power supply in a suitable outdoor enclosure or location, ensuring adequate ventilation and protection from direct water immersion.
3. **Input Wiring (AC):** Connect the AC input wires (Line, Neutral, Ground) from your 347-480V supply to the corresponding terminals on the power supply. Refer to the wiring diagram on the unit label.
4. **Output Wiring (DC):** Connect the DC output wires (+ and -) from the power supply to your LED fixture(s). Observe correct polarity.
5. **Dimming Control (0-10V):** If using 0-10V dimming, connect the dimming control wires to the designated dimming terminals.
6. **Verification:** Double-check all connections for tightness and correct wiring before restoring power.



Figure 1: OSRAM OPTOTRONIC 180W LED Power Supply. This image shows the compact design of the power supply, highlighting its robust casing suitable for outdoor use. The input and output terminals are visible, indicating connection points for AC power and LED loads.

5. PROGRAMMING

The OPTOTRONIC power supply is programmable, allowing customization of the output current to perfectly match your LED load and maximize performance. Programming is done via an OPTOTRONIC programmer (sold separately).

- Connect the OPTOTRONIC programmer to the designated programming port on the power supply.
- Use the programmer's interface to set the desired output current with 1mA resolution.
- The "LED set" feature can automatically configure the output current based on the connected LED module.
- *Note: Programming can be performed without connecting the power supply to AC line voltage.*

6. OPERATING INSTRUCTIONS

Once installed and programmed, the power supply operates automatically. Its primary function is to provide a constant current to the connected LED load.

6.1 Dimming Functionality

This power supply supports 0-10V dimming, allowing integration with standard dimmers, sensors, and energy management systems.

- Connect a compatible 0-10V dimmer to the dimming control terminals.
- Adjust the dimmer to control the light output from 10% to 100%.
- Ensure the dimmer is rated for the application and properly installed.

7. MAINTENANCE

The OSRAM OPTOTRONIC LED Power Supply is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Cleaning:** Periodically inspect the unit for dust or debris accumulation. Clean the exterior with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Connections:** Annually, or as needed, inspect all electrical connections for tightness and signs of corrosion. Ensure wiring insulation is intact.
- **Environmental Check:** Verify that the operating environment remains within specified temperature and humidity ranges. Ensure proper ventilation.
- **Professional Inspection:** For any internal inspection or repair, contact qualified service personnel.

8. TROUBLESHOOTING

If you experience issues with your LED power supply, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
LEDs do not light up.	No input power; incorrect wiring; faulty LED fixture; incorrect programming.	Check circuit breaker and power connections. Verify AC input and DC output wiring polarity. Test LED fixture. Re-program power supply if necessary.
LEDs flicker or dim inconsistently.	Loose connections; incompatible dimmer; faulty dimmer; incorrect programming.	Inspect all wiring connections. Ensure dimmer is compatible and functioning correctly. Verify programming settings.
Power supply is hot.	Overload; insufficient ventilation; high ambient temperature.	Ensure total LED load does not exceed 180W. Provide adequate airflow around the unit. Relocate if ambient temperature is too high.

If the problem persists after attempting these solutions, contact customer support or a qualified electrician.

9. SPECIFICATIONS

Attribute	Value
Manufacturer	LEDVANCE
Part Number	79208

Attribute	Value
Item Weight	2.19 pounds
Product Dimensions	9.47 x 2.36 x 1.5 inches
Model Number	79208
Color	Black
Material	Metal
Voltage	347-480 Volts
Wattage	180 watts
Item Package Quantity	1
Type of Bulb (Supported)	LED
Special Features	Dimmable
Included Components	1 Power Supply
Batteries Required?	No
Brand	OSRAM
Power Source	Corded Electric
Current Rating	0.5 Amps
UPC	046135792083

10. WARRANTY INFORMATION

This OSRAM OPTOTRONIC LED Power Supply comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full details regarding warranty terms, conditions, and claim procedures, please refer to the official OSRAM warranty documentation or contact customer support.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact OSRAM customer support. Visit the official OSRAM website for contact information and additional resources.

Online Resources: [OSRAM Store on Amazon](#)

