

OSRAM OT100/347-480V/1250C/2DIMLT2/P

OSRAM OT100W/347-480V/1250C/2DIM/P6 Dimmable LED Power Supply User Manual

General Model: OT100/347-480V/1250C/2DIMLT2/P

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the OSRAM OT100W/347-480V/1250C/2DIM/P6 Dimmable LED Power Supply. This device is a 100-watt, 347/480-volt, programmable, constant current LED driver designed for outdoor applications.

2. SAFETY INFORMATION

WARNING: Read all instructions before installation and operation.

- **Electrical Hazard:** Disconnect power before servicing to prevent electric shock.
- **Grounding:** The case of the power supply must be properly grounded.
- **Wiring:** Ensure all wiring complies with local and national electrical codes. Only Class 2 or non-Class 2 wiring is allowed as specified.
- **California Proposition 65 Warning:** This product can expose you to chemicals, which are known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65warnings.ca.gov.
- This device is a Class 2 LED power unit, Type HL, suitable for Dry, Damp, and Hazardous locations.

3. PRODUCT FEATURES

- **Power Output:** 100 Watts maximum.
- **Input Voltage:** 347-480VAC, 50/60 Hz.
- **Output Current:** Constant Current, programmable range of 600-1250mA.
- **Dimming:** Dimmable with 0-10V dimming input (isolated).
- **Efficiency:** Power Factor (PF) > 0.9, Total Harmonic Distortion (THD) < 20%.
- **Environmental Rating:** IP66 rated for protection against dust and powerful water jets, suitable for outdoor use.

- **Certifications:** Complies with FCC 47 CFR part 15, Class A. UL Listed. RoHS compliant.

4. SPECIFICATIONS

| Parameter | Value |
|---------------------------------|---|
| Model Number (on label) | OT100W/347-480V/1250C/2DIM/P6 |
| Input Voltage | 347-480VAC, 50/60 Hz |
| Input Current (Max) | 0.345A @ 347V, 0.255A @ 480V |
| Output Power (Max) | 100W |
| Output Voltage Range | 30-100VDC |
| Output Current Range | 600-1250mA (Constant Current, Programmable) |
| Dimming Control | 0-10V (100% to 10%) |
| Power Factor (PF) | > 0.9 |
| Total Harmonic Distortion (THD) | < 20% |
| Max Case Temperature (Tc) | 90°C max |
| Dimensions (L x W x H) | 6.6" x 2.4" x 1.5" (1.5"D x 6.6"W x 1.5"H) |
| IP Rating | IP66 |
| Manufacturer | Osram |
| UPC | 046135792076 |

5. SETUP AND INSTALLATION

Refer to the product label for detailed wiring instructions. Ensure all connections are secure and comply with local electrical codes.



Figure 1: Osram OT100W/347-480V/1250C/2DIM/P6 LED Power Supply. The label on the device details its model number, input voltage (347-480VAC), output current range (600-1250mA), dimming capabilities, and wiring connections for line, neutral, LED output, and dimming control.

Wiring Connections:

- **Input (AC):**
 - Black wire: LINE
 - White wire: NEUTRAL
- **Output (DC to LED):**
 - Red wire: LED+
 - Blue wire: LED-
- **Dimming Control (0-10V):**
 - Purple wire: DIM+
 - Pink wire: DIM-
- **Grounding:** Connect the power supply case to earth ground.

The dimming input is isolated. Ensure proper polarity for LED and dimming connections.

6. OPERATING INSTRUCTIONS

This LED power supply is a constant current, programmable driver. The output current can be programmed within the 600-1250mA range to match the requirements of the connected LED load.

Dimming Functionality:

The unit supports 0-10V dimming, allowing for light output adjustment from 100% down to 10%. Connect a compatible 0-10V dimmer to the purple (DIM+) and pink (DIM-) wires. A higher voltage on the dimming input corresponds to a higher light output.

7. MAINTENANCE

The OSRAM LED Power Supply is designed for reliable operation with minimal maintenance. However, periodic inspection is recommended.

- **Cleaning:** Ensure the unit is free from excessive dust or debris, especially in outdoor environments. Use a dry, soft cloth for cleaning.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or damage.
- **Servicing:** Always disconnect power to the unit before performing any maintenance or inspection to prevent electrical shock.

8. TROUBLESHOOTING

If the LED power supply is not functioning as expected, consider the following:

- **No Light Output:**
 - Verify input power is present and correctly wired (LINE, NEUTRAL).
 - Check LED output connections (LED+, LED-) for correct polarity and secure contact.
 - Ensure the LED load is compatible with the power supply's output voltage and current range.
- **Dimming Issues:**
 - Confirm the 0-10V dimmer is compatible and correctly wired (DIM+, DIM-).
 - Check dimming control voltage levels.
- **Overheating:**
 - Ensure adequate ventilation around the power supply.
 - Verify the ambient temperature is within the operating limits.

For further assistance, refer to the support section.

9. WARRANTY INFORMATION

Specific warranty details for the OSRAM OT100W/347-480V/1250C/2DIM/P6 LED Power Supply are typically provided at the point of purchase or on the official OSRAM website. Please retain your proof of purchase for warranty claims. Standard warranty terms usually cover defects in materials and workmanship under normal use.

10. SUPPORT AND CONTACT

For technical assistance, product inquiries, or support, please contact OSRAM customer service or visit the

official OSRAM website.

- **Manufacturer:** Osram
- **Online Support:** Refer to the official OSRAM website for the latest support resources and contact information.
- **EldoLED Technical Assistance:** For service or technical assistance related to EldoLED components, visit www.eldoled.com/contact.