

Nora Lighting NPSU-60W/24

Nora NPSU-60W/24 24V Constant Voltage Class 2 Dimmable Driver User Manual

Model: **NPSU-60W/24** | Brand: **Nora Lighting**

INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Nora NPSU-60W/24 24V Constant Voltage Class 2 Dimmable Driver. This driver is designed for use with Nora Lighting's 24 Volt systems and is compatible with various dimming protocols. Please read these instructions thoroughly before installation and use.

The Nora NPSU-60W/24 is a 24V Constant Voltage Class 2 Dimmable LED driver. It is compatible with Triac, ELV, MLV, 0-10V, or PWM dimmers and suitable for a wide range of applications. Its NEMA 4X enclosure is rated for wet locations and it is cULus listed.

PRODUCT FEATURES

- Triac, ELV, MLV, 0-10V or PWM dimming compatibility.
- Down to 1% dimming capability, ensuring stable and flicker-free operation.
- Constant Voltage design, fully compatible with Nora Lighting's 24V systems.
- Meets Class 2 output limits with a 24VDC rated output.
- Features separate compartments for input and output wires for organized and safe wiring.

WHAT'S IN THE BOX

- Nora NPSU-60W/24 Constant Voltage Class 2 Dimmable Driver (Transformer)

PRODUCT OVERVIEW



Figure 1: Top-down view of the Nora NPSU-60W/24 24V Constant Voltage Class 2 Dimmable Driver. The black rectangular unit features a split cover design and multiple knockouts for wiring connections.

SETUP AND INSTALLATION

Safety First: Always disconnect power at the circuit breaker before installing or servicing the driver. Installation should be performed by a qualified electrician in accordance with national and local electrical codes.

1. **Mounting:** Securely mount the driver in a suitable location. The NEMA 4X enclosure allows for wet location installation, but ensure proper ventilation and access for wiring.
2. **Wiring Input (AC):** Connect the AC input wires (Line, Neutral, Ground) to the designated terminals within the input compartment. Ensure all connections are tight and secure.
3. **Wiring Output (DC):** Connect the 24VDC output wires to your compatible Nora Lighting 24V system or LED fixtures. Observe polarity (+ and -).
4. **Dimmer Connection (if applicable):** If using a compatible dimmer, connect the dimmer control wires (e.g., 0-10V, PWM) to the appropriate terminals on the driver. Refer to your dimmer's instructions for specific wiring diagrams.
5. **Enclosure Closure:** Once all wiring is complete and verified, securely close the driver's compartments.
6. **Power On:** Restore power at the circuit breaker and test the system.

Note: The driver features separate compartments for input and output wires to facilitate organized and safe wiring

practices.

OPERATING INSTRUCTIONS

The Nora NPSU-60W/24 driver operates automatically once properly installed and powered. It converts incoming AC power to a stable 24VDC constant voltage output for your LED lighting system.

- **Power On/Off:** Control the power to the connected lighting system via the main power switch or circuit breaker.
- **Dimming:** If a compatible dimmer is connected, use the dimmer control to adjust the light output from 1% to 100%. The driver is designed for stable, flicker-free dimming.
- **Compatibility:** Ensure that the connected LED fixtures or systems are rated for 24VDC constant voltage and do not exceed the driver's maximum wattage (60 Watts for this model).

MAINTENANCE

The Nora NPSU-60W/24 driver is designed for long-term, maintenance-free operation. However, periodic checks can ensure optimal performance:

- **Cleaning:** Ensure the driver's exterior is free from excessive dust or debris. If cleaning is necessary, disconnect power and use a dry, soft cloth. Do not use liquid cleaners.
- **Connections:** Periodically check all wiring connections for tightness, especially after initial installation or if any issues arise.
- **Environment:** Ensure the operating environment remains within the specified temperature and humidity ranges. Although rated for wet locations, avoid direct submersion or extreme conditions beyond its rating.

TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------------|---|---|
| No light output | No power to driver; Loose wiring connections; Overload; Faulty LED fixture. | Check circuit breaker and power supply; Verify all wiring connections; Ensure total wattage of connected LEDs does not exceed 60W; Test LED fixture with another known good driver. |
| Flickering or unstable dimming | Incompatible dimmer; Dimmer not properly wired; Minimum load not met. | Ensure dimmer is compatible (Triac, ELV, MLV, 0-10V, PWM); Check dimmer wiring; Ensure sufficient load is connected to the driver. |
| Driver overheating | Insufficient ventilation; Overload; Ambient temperature too high. | Ensure proper airflow around the driver; Reduce connected load; Verify ambient temperature is within specifications. |

If troubleshooting steps do not resolve the issue, contact Nora Lighting customer support or a qualified electrician.

SPECIFICATIONS

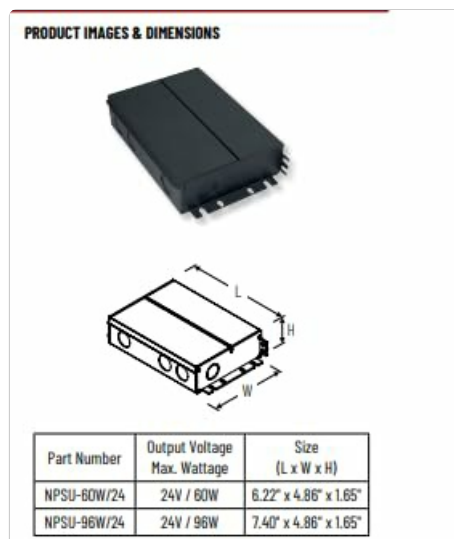


Figure 2: Diagram showing the product dimensions and a table of specifications for the NPSU-60W/24 and NPSU-96W/24 models. The NPSU-60W/24 measures 6.22"L x 4.86"W x 1.65"H.

| Specification | Detail |
|--------------------------------|-----------------------------|
| Model Number | NPSU-60W/24 |
| Brand | Nora Lighting |
| Output Voltage | 24VDC Constant Voltage |
| Max. Wattage | 60 Watts |
| Dimming Compatibility | Triac, ELV, MLV, 0-10V, PWM |
| Dimming Range | Down to 1% |
| Enclosure Rating | NEMA 4X (Wet Locations) |
| Certifications | cULus Listed |
| Product Dimensions (L x W x H) | 6.22" x 4.86" x 1.65" |
| Country of Origin | China |
| UPC | 732180998029 |

WARRANTY AND SUPPORT

Nora Lighting products are manufactured to the highest quality standards. For specific warranty information regarding your NPSU-60W/24 driver, please refer to the documentation included with your purchase or visit the official Nora Lighting website.

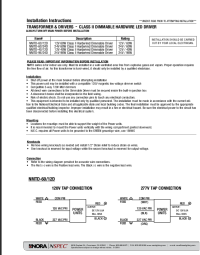
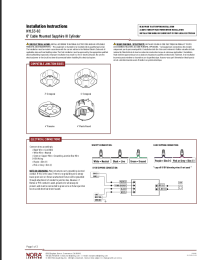
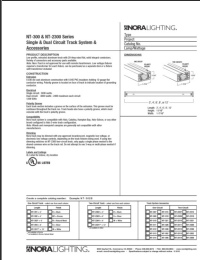
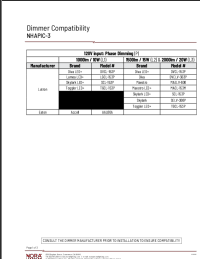
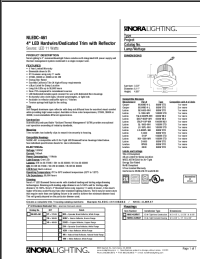
For technical support, troubleshooting assistance, or warranty claims, please contact Nora Lighting customer service:

Website: www.noralighting.com

Contact Information: Refer to the website for the most current contact details (phone, email).

When contacting support, please have your product model number (NPSU-60W/24) and purchase date readily available.

Related Documents - NPSU-60W/24

| | |
|---|---|
|  | <p>Nora Lighting NMTD Series Class II Dimmable Hardwire LED Driver Installation Guide</p> <p>Comprehensive installation guide for Nora Lighting's NMTD series Class II dimmable hardwire LED drivers. Covers models NMTD-60/12D, NMTD-60/24D, NMTD-40/12D, and NMTD-96/24D. Includes safety precautions, mounting instructions, wiring diagrams, and troubleshooting tips.</p> |
|  | <p>Nora Lighting NYLS3-6C Installation Instructions: 6" Cable Mounted Sapphire III Cylinder</p> <p>Detailed installation instructions for the Nora Lighting NYLS3-6C 6" Cable Mounted Sapphire III Cylinder, covering electrical connections, cable mounting, and emergency power options.</p> |
|  | <p>Nora Lighting NT-300 & NT-2300 Series Track Systems and Accessories Catalog</p> <p>Comprehensive catalog for Nora Lighting's NT-300 and NT-2300 Series single and dual circuit track systems. Details product specifications, construction, electrical features, compatibility, and a wide array of accessories including connectors, suspension hardware, and adapters for diverse lighting applications.</p> |
|  | <p>Nora Lighting NHAPIC-3 Dimmer Compatibility Guide</p> <p>Compatibility list for Nora Lighting NHAPIC-3 LED drivers with various dimmer manufacturers, brands, and models, including phase dimming, 0-10V dimming, and Lutron EcoSystem.</p> |
|  | <p>NLEDC-461 4" LED Hardwire/Dedicated Trim with Reflector - Nora Lighting</p> <p>Detailed specifications for the Nora Lighting NLEDC-461, a 4-inch LED hardwire/dedicated trim with reflector. Features include 11W power consumption, 613 lumens, 94 CRI, dimmability, and compatibility with various housings and dimmers. Energy Star and cULus listed.</p> |

