

Installation Manual for Dimming Power Supplies

Part number: *Adapter-60-12D-NA, Driver-60-12D-NA, Adapter-96-24D-NA, Driver-96-24D-N*

MOUNTING AND INSTALLATION INSTRUCTIONS

WARNING: The drivers specified here must be installed by a qualified electrician in accordance with the National Electrical Code (NEC) and local building codes. Failure to do so voids the warranty and may result in serious injury or permanent damage to the unit.

For connection, use 12-22 AWG copper wires insulated for a minimum of 90C rated for 600 V. Use wire connectors suitable for the number and size conductors being connected and applied in accordance with the manufacturer's instructions. There must be at least 20-amp supply side branch current. A disconnect device shall be located in the field wiring

IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic precautions should be practiced including the following:

- **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- Read and follow all instructions that are on the product or provided with the product.
- Reference the National Code, ANSI/NFPA 70, specifically for the installation of wiring and clearances from power and lighting conductors.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- **WARNING:** Risk of fire. Installation involves special wiring methods to run wiring through a building structure. Consult a qualified electrician.
- **WARNING:** Risk of electric shock. Mount the unit at a greater height than 1 foot from the ground surface

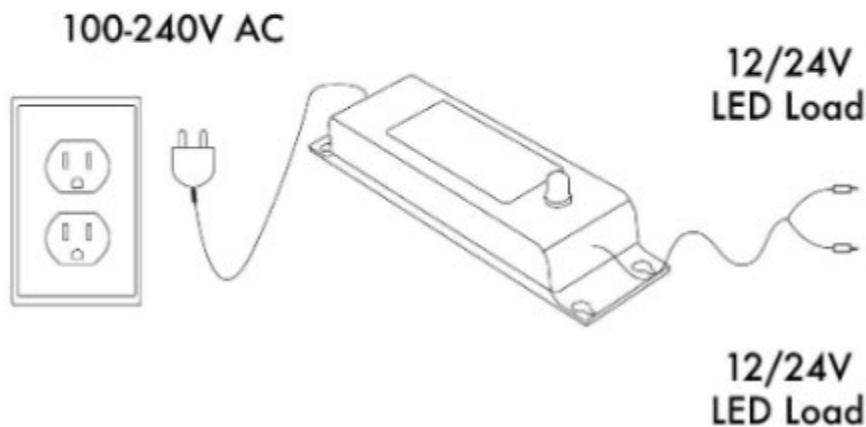
Troubleshooting

If you experience issues, double check all wiring and make sure your connections are secure. This goes for both the power supply and the load. If possible, substitute a known good power supply or LED load. This will help identify any defective parts in the unlikely event that you received one. Call Environmental Lights if you are still having trouble and need assistance.

Using Adapters with Dimming Knobs

Both Adapter-60-12D-NA and Adapter-96-24D-NA have integrated dimming circuits with an external control knob. They should not be used with any additional dimming hardware. No wiring is necessary with these adapters. Simply insert the North American plug into a North American outlet with 100-240V AC and plug the barrel connector into the LED lights.

12V & 24V Adapters



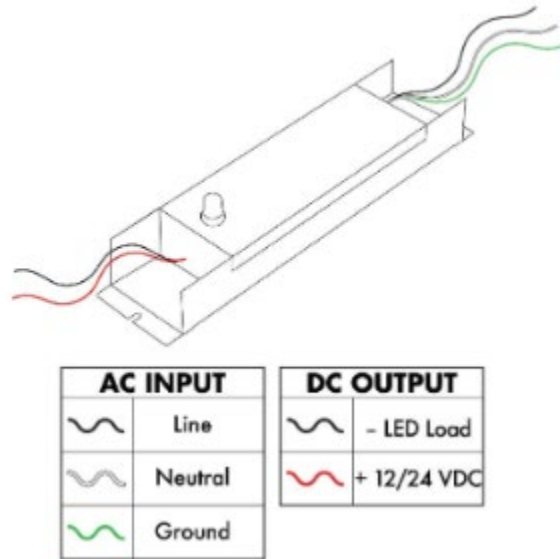
Operation:

From OFF, rotate the dimming knob clockwise until it clicks. This click indicates the output turning on. Continue turning the knob to increase brightness. Turn the lights off by rotating the knob counterclockwise until it clicks, which indicates the LEDs are completely off.

Using Drivers with Dimming Knobs

Both Driver-60-12D-NA and Driver-96-24D-NA have integrated dimming circuits with an external control knob. They should not be used with any additional dimming hardware. Follow the wiring steps listed below:

12V & 24V Drivers



Wiring:

Turn off power at the building's breaker for safety.

Remove the covers from both ends of the driver.

Remove the appropriate knockouts on each end of the driver.

Wire the primary side to the building wiring. Black is line (120V AC), white is neutral and green is earth ground.

Wire the secondary side to the LED lights. Red is positive and black is ground. Always make sure the power supply is the correct voltage for the LEDs you are using before turning on the power. Applying the incorrect voltage can permanently damage the LEDs.

Secure the covers back onto each end of the driver.

Once all connections are secure, turn the building circuit breaker back on and test.

Operation:

From OFF, rotate the dimming knob clockwise until it clicks. This click indicates the output turning on.

Continue turning the knob to increase brightness. Turn the lights off by rotating the knob counterclockwise until it clicks, which indicates the LEDs are completely off.