

Armacost Lighting 850240

Armacost Lighting 24-Volt 24-Watt LED Power Supply Model 850240 User Manual

Model: 850240

1. PRODUCT OVERVIEW

The Armacost Lighting 24-Volt 24-Watt LED Power Supply (Model 850240) is designed to provide stable and energy-efficient low-voltage power for LED lighting installations. This constant voltage LED driver utilizes professional-grade electronics to ensure reliable performance.



Image: Armacost Lighting 24-Volt 24-Watt LED Power Supply with attached AC cord.

Key Features:

- Prewired with a 60-inch removable AC cord with plug for standard 120-volt AC outlets.
- Integrated microprocessor optimizes LED dimming performance based on load.
- Removable AC power cord allows for both plug-in and direct wiring options.
- Automatic shut-off for protection against overload, open circuit, short circuit, and over-temperature conditions.
- ETL listed, conforming to UL standard 1310 and certified to Canada/CSA standard C22.2 No. 223-M96.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Risk of Electric Shock:** Disconnect power at the circuit breaker before installing or servicing.
- This power supply is designed for use with 24-volt LED lighting only. Do not connect to 12-volt

LED products or other voltage systems.

- Ensure all wiring connections are secure and properly insulated.
- Do not exceed the maximum wattage rating of 24 watts.
- Install in a dry location. This unit is rated for dry and damp locations only.
- Consult a qualified electrician if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Armacost Lighting 24W, 24V LED Driver
- 1x Detachable AC Power Cord

4. SETUP AND INSTALLATION

This power supply offers flexibility for either plug-in or direct-wire installation. Always ensure power is disconnected before making any electrical connections.

4.1. Direct-Wire Installation

1. Disconnect the detachable AC power cord from the power supply.
2. Open the input terminal cover on the power supply.
3. Connect the 100-120VAC input wires from your electrical source to the designated input terminals (L and N) on the power supply. Ensure proper polarity.
4. Secure the wires using the terminal screws.
5. Connect the 24V DC output wires from the power supply to your 24-volt LED lighting system. The output terminals are marked '+' and '-'.
6. Close the input terminal cover.

Efficient constant voltage power for 24-volt LED lighting

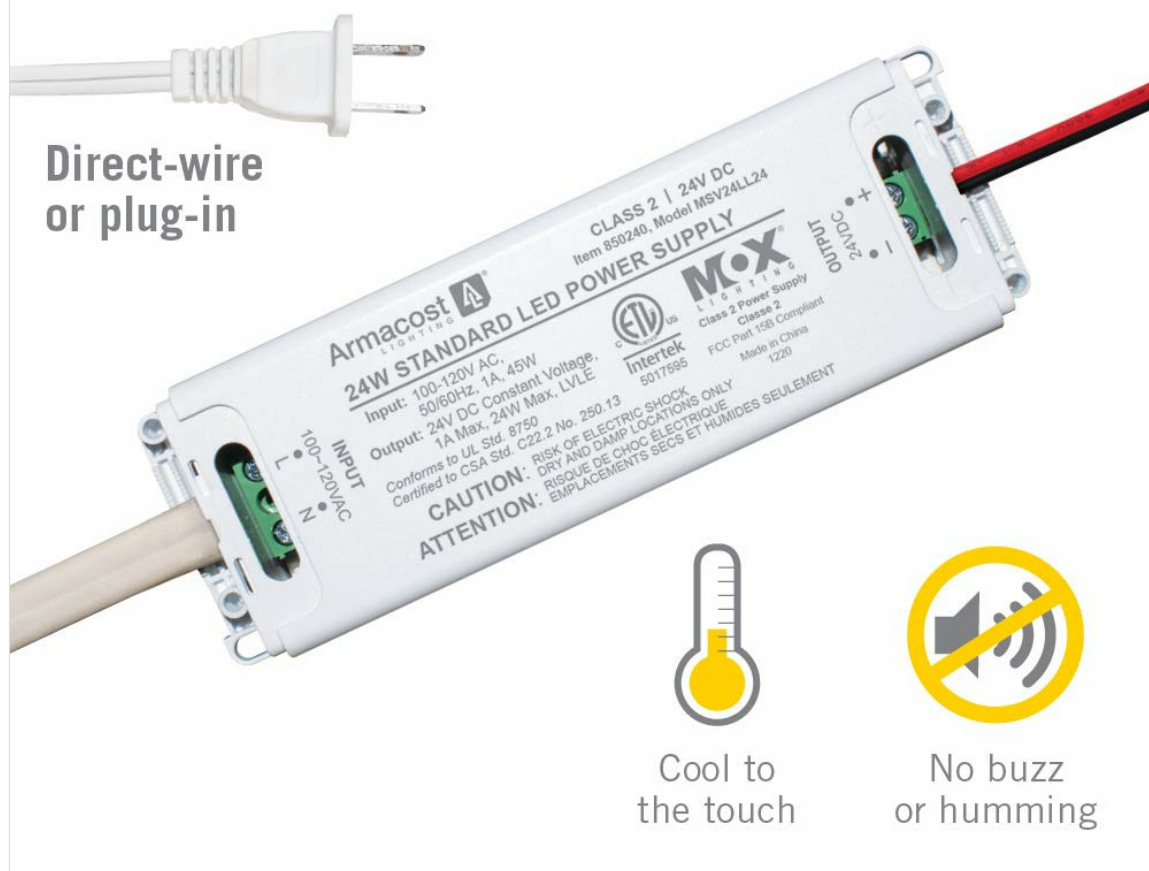


Image: Close-up of the Armacost Lighting 24-Volt 24-Watt LED Power Supply showing the input and output terminals for direct wiring.

4.2. Plug-in Installation

1. Ensure the detachable AC power cord is securely connected to the power supply.
2. Connect the 24V DC output wires from the power supply to your 24-volt LED lighting system. The output terminals are marked '+' and '-'.
3. Plug the AC power cord into a standard 120-volt AC outlet.

Important Note: This power supply is specifically designed for 24-volt lighting applications. Using it with 12-volt systems will result in improper operation and potential damage.

**24
VOLT**

For 24-volt
lighting only



Image: Armacost Lighting 24-Volt LED Power Supply with a clear label indicating it is for 24-volt lighting only.

5. OPERATING INSTRUCTIONS

Once properly installed, the Armacost Lighting 24-Volt 24-Watt LED Power Supply will provide constant voltage to your connected 24-volt LED lighting. The unit is designed for continuous operation.

5.1. Dimming Compatibility

This power supply is compatible with low-voltage LED dimmers and color controllers. For optimal performance, use Armacost Lighting LED products and compatible dimmers. Note that this power supply is **not compatible with 120V AC dimmers**.



**Compatible with
low-voltage LED
dimmers and
color controllers**

Image: Armacost Lighting 24-Volt 24-Watt LED Power Supply shown with various low-voltage LED dimmers and color controllers, highlighting compatibility.

5.2. Product Application Video

The following video provides an overview of Armacost Lighting products, including power supplies, and their applications in under cabinet LED lighting. This can offer further context on how to integrate and operate your power supply within a larger lighting system.

Your browser does not support the video tag.

*Video: Overview of Armacost Lighting's under cabinet LED lighting, power supplies, and controls.
This video demonstrates various products and their integration.*

6. MAINTENANCE

The Armacost Lighting LED Power Supply requires minimal maintenance. Ensure the unit is kept clean and free from dust and debris to maintain optimal performance and heat dissipation.

- Periodically inspect the power supply and all connections for any signs of damage or wear.
- Clean the exterior with a dry, soft cloth. Do not use liquid cleaners or solvents.

- Ensure adequate ventilation around the unit to prevent overheating.

7. TROUBLESHOOTING

If you encounter issues with your LED Power Supply, refer to the following table for common problems and solutions.

Problem	Possible Cause	Solution
LEDs do not light up	No power to the unit; Incorrect wiring; Overload; Faulty LED strip/fixture.	Check power outlet/circuit breaker; Verify input/output wiring polarity; Reduce connected load; Test LED strip/fixture with another power source.
LEDs flicker or dim inconsistently	Loose connections; Incompatible dimmer; Overload; Power supply issue.	Secure all connections; Ensure dimmer is low-voltage compatible; Reduce connected load; Replace power supply if issue persists.
Power supply is hot to the touch	Overload; Insufficient ventilation.	Reduce connected load to below 24W; Ensure adequate airflow around the unit.
Automatic shut-off activates	Overload; Short circuit; Over-temperature.	Disconnect power, check for short circuits in wiring or LED strip; Reduce load; Allow unit to cool down before reconnecting power.

8. SPECIFICATIONS

Technical details for the Armacost Lighting 24-Volt 24-Watt LED Power Supply Model 850240:

- **Model Number:** 850240
- **Input Voltage:** 100-120V AC
- **Output Voltage:** 24V DC
- **Maximum Output Wattage:** 24 Watts
- **Current Rating:** 1 Amps
- **Power Source:** Corded Electric
- **Mounting Type:** Surface Mount
- **Product Dimensions:** 1.7"D x 5.3"W x 1.2"H (4.3 cm D x 13.5 cm W x 3.0 cm H)
- **Weight:** Approximately 7.04 ounces (200 grams)
- **Certifications:** ETL listed, conforms to UL standard 1310, certified to Canada/CSA standard C22.2 No. 223-M96



COMPACT & LIGHTWEIGHT

Only 7 oz.



Dry & damp
location rated



No minimum
load required

30,000+
HOURS

Long
lifespan



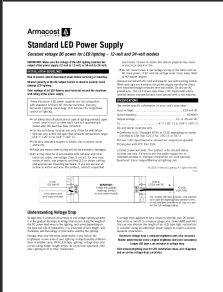
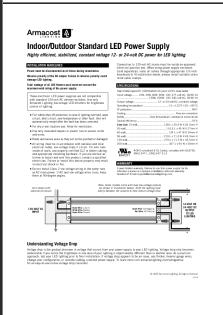
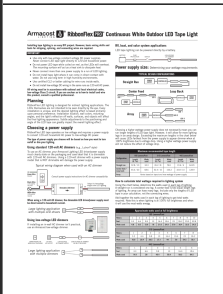
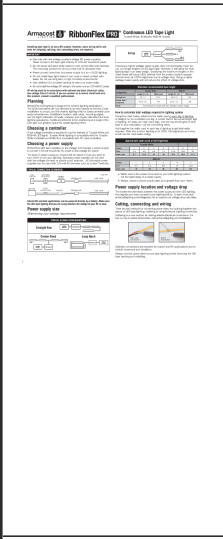
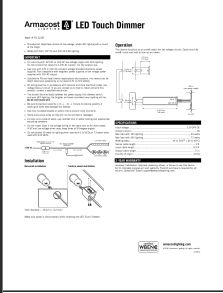
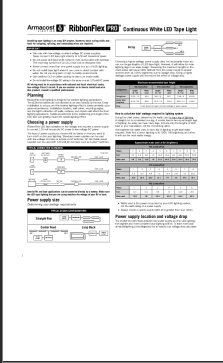
Overload,
short-circuit
protection

Image: Armacost Lighting 24-Volt 24-Watt LED Power Supply with dimensions labeled, highlighting its compact and lightweight design.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Armacost Lighting website or contact their customer service department. Keep your purchase receipt as proof of purchase. For additional resources and product information, visit the [Armacost Lighting Store on Amazon](#).

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	<p>Armacost Lighting Standard LED Power Supply: Installation and Specifications</p> <p>This document provides installation guidelines, specifications, and technical details for Armacost Lighting's Standard LED Power Supplies, available in 12-volt and 24-volt models. It covers safety precautions, wiring, voltage drop, and warranty information.</p>
	<p>Armacost Lighting Indoor/Outdoor Standard LED Power Supply - 12V/24V DC</p> <p>Detailed information on the Armacost Lighting Indoor/Outdoor Standard LED Power Supply. Features include constant voltage 12/24V DC output, IP67 rating, 91% efficiency, and comprehensive safety protections. Includes installation guidelines, technical specifications, and warranty details.</p>
	<p>Armacost RibbonFlex PRO Continuous White Outdoor LED Tape Light Installation Guide</p> <p>Learn how to install Armacost RibbonFlex PRO continuous white outdoor LED tape lights. This guide covers power supply selection, wiring, voltage drop, troubleshooting, and important safety information for a successful DIY lighting project.</p>
	<p>Armacost Lighting RibbonFlex PRO Continuous LED Tape Light Installation Guide</p> <p>A comprehensive guide for installing Armacost Lighting RibbonFlex PRO continuous LED tape lights. It covers essential steps like planning, selecting power supplies and controllers, wiring, using connectors, surface preparation, troubleshooting common issues, and product specifications for Tunable White and RGB+W models.</p>
	<p>Armacost Lighting LED Touch Dimmer Low Voltage LED Control Item 511220</p> <p>Learn about the Armacost Lighting LED Touch Dimmer (Item # 511220). This device offers full brightness control for 12V DC and 24V DC single-color LED lighting. Includes specifications, installation guide, and warranty information.</p>
	<p>Armacost RibbonFlex PRO Continuous White LED Tape Light Installation Guide</p> <p>Learn how to install Armacost RibbonFlex PRO Continuous White LED Tape Light with this comprehensive guide. Covers planning, power supply selection, cutting, connecting, wiring, and troubleshooting.</p>

