SHNITPWR SNT-2403

SHNITPWR 24V 3A DC Power Supply Adapter (Model SNT-2403) Instruction Manual

Model: SNT-2403

1. Introduction

This manual provides essential information for the safe and efficient use of your SHNITPWR 24V 3A DC Power Supply Adapter. This adapter converts AC 100V-240V input to a stable DC 24V output with a maximum current of 3A (72W). It is designed for various applications including LED strip lights, 3D printers, CCTV systems, and LCD monitors. Please read this manual thoroughly before operation.

2. Safety Information

Observe the following safety precautions to prevent damage to the device or injury to yourself:

- **Input Voltage:** Ensure the AC input voltage is within the specified range of 100V-240V, 50/60Hz.
- **Output Current:** The adapter provides a maximum of 3A. Do not connect devices that draw more than 3A, as this will damage the power supply and potentially the connected device. If your device requires less than 3A (e.g., 500mA, 1A, 2A), the adapter will supply only the required current.
- **Overload Protection:** The unit features automatic overload cut-off, over voltage cut-off, automatic thermal cut-off, and short circuit protection. However, continuous overloading should be avoided.
- **Not a Charger:** This product is an AC to DC adapter, not a charger. It cannot be used to charge electronic devices with batteries, such as laptops. Doing so may damage your device.
- **Operating Environment:** Operate in a well-ventilated area. Avoid extreme temperatures, humidity, or direct sunlight.
- **Professional Advice:** For optimal performance and longevity, it is recommended to use the power supply at no more than 80% of its full load capacity. For a 72W adapter, this means powering devices up to approximately 57W.
- **Certifications:** This product is certified by FCC, CE, and ROHS, ensuring compliance with safety and environmental standards.

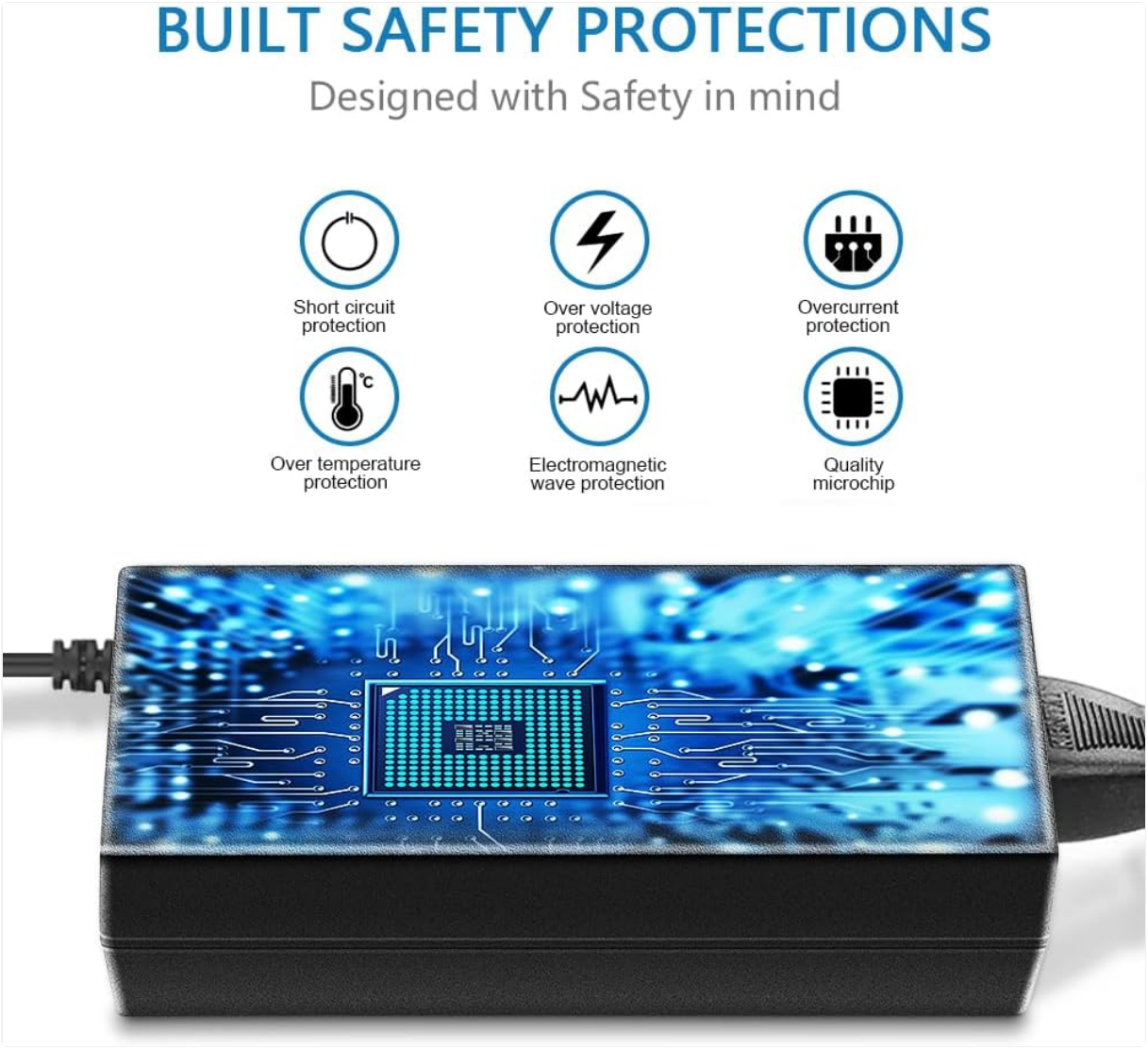

Figure 2.1: Built-in Safety Protections. The image displays icons representing various safety features: Short circuit protection, Over voltage protection, Overcurrent protection, Over temperature protection, Electromagnetic wave protection, and a Quality microchip. Below these icons, a circuit board design is visible, emphasizing the internal safety components.

3. Package Contents

Verify that all items are present in the package:

- 1 x SHNITPWR 24V 3A Power Supply Adapter
- 1 x AC Power Cord
- 1 x DC Female Connector (5.5x2.5mm)

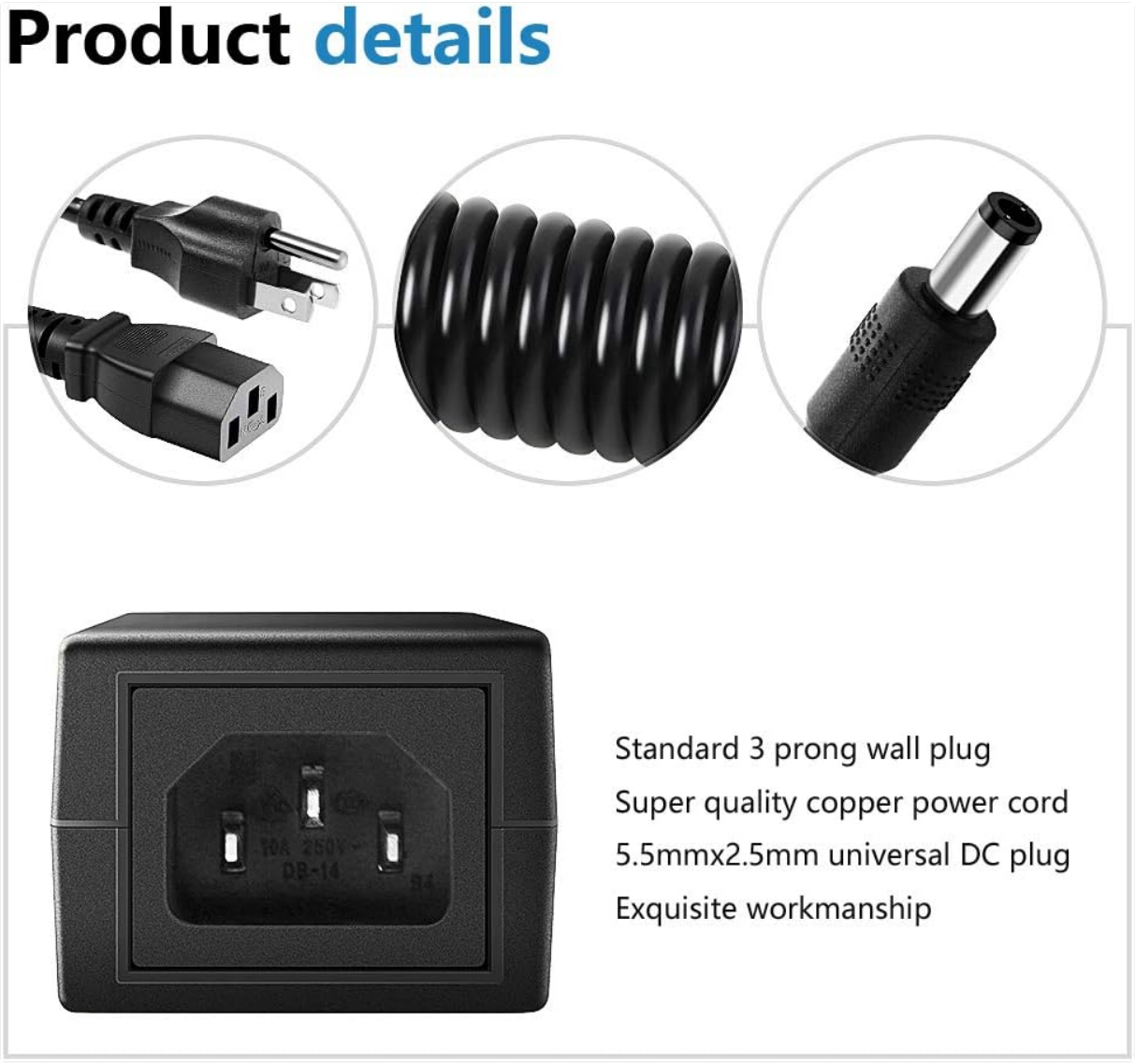

Figure 3.1: Product Details. This image illustrates the standard 3-prong wall plug, the super quality copper power cord, and the 5.5mm x 2.5mm universal DC plug. A detailed view of the AC input socket on the adapter is also shown, highlighting its robust design.

4. Setup Instructions

1. **Connect AC Power Cord:** Insert the AC power cord into the adapter's AC input port. Ensure it is firmly seated.
2. **Connect DC Output:** Connect the DC output plug (5.5mm x 2.5mm) to your compatible 24V device. If your device requires a different DC connector, use the provided DC female connector to screw wires onto it, ensuring correct polarity.
3. **Plug into Wall Outlet:** Plug the AC power cord into a standard 100V-240V wall outlet.
4. **Verify Connection:** A green LED indicator on the adapter will illuminate when power is supplied, indicating proper operation.

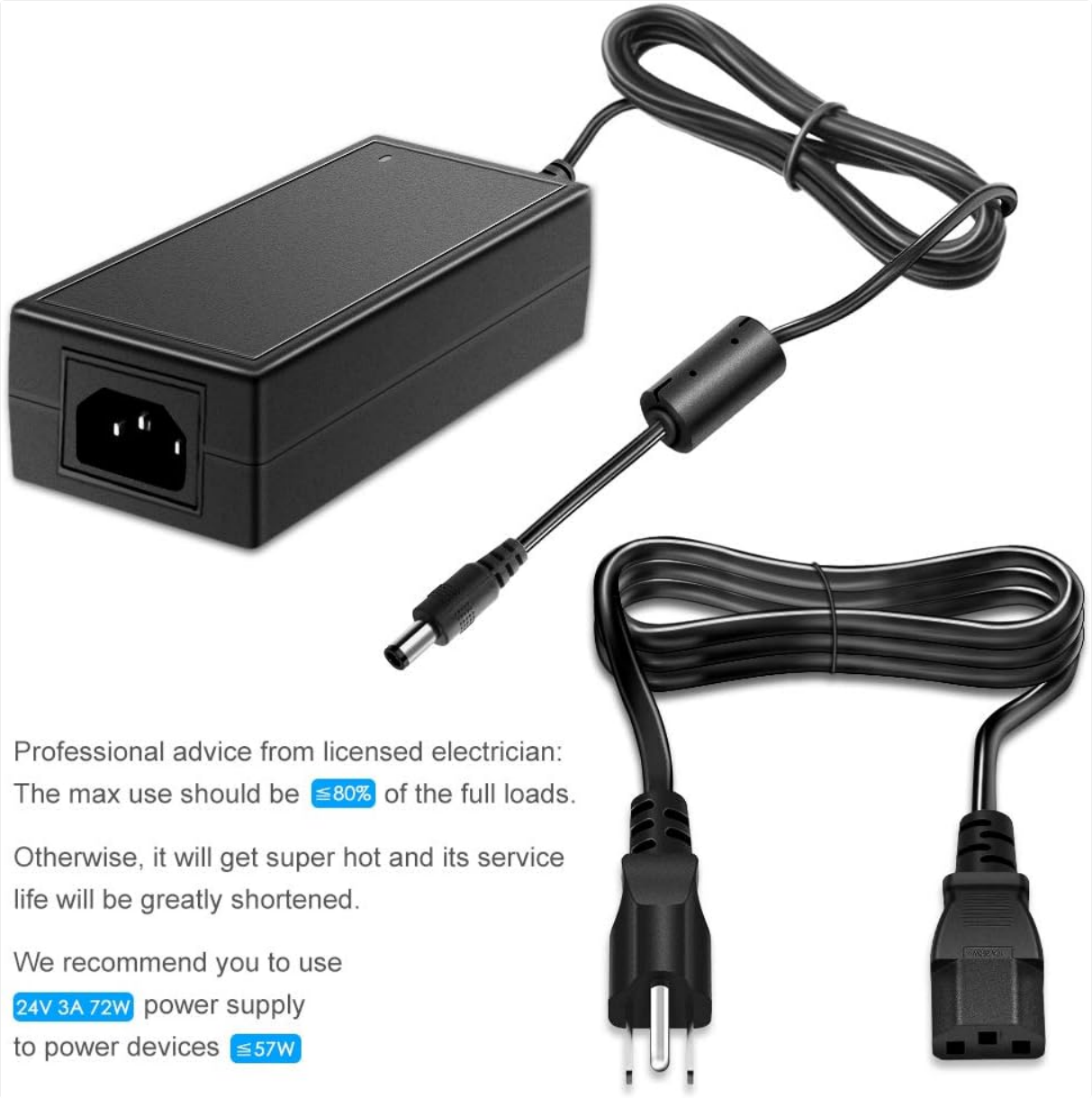

Figure 4.1: Power Supply Connection and Usage Recommendation. This image illustrates the power adapter connected to a wall outlet and its DC output connected to a device. It also includes a text overlay advising that the maximum use should be less than or equal to 80% of the full load (e.g., for a 24V 3A 72W supply, power devices up to 57W) to prevent overheating and extend service life.

5. Operating Instructions

Once connected, the power supply will provide stable 24V DC power to your device. Ensure your device is compatible with 24V DC input and does not exceed the 3A current limit.

- **Compatibility:** This adapter is suitable for devices such as 5050/3528 24V LED Strip Lights, Wireless Routers, ADSL Cats, HUBs, Security Cameras, Audio/Video Power Supplies, 3D Printers, LED Drivers, CCTV Security Systems, LCD Monitors, and Webcam Routers that require 24V DC power.
- **Power Indicator:** The green LED on the adapter indicates that it is receiving AC input and providing DC output.

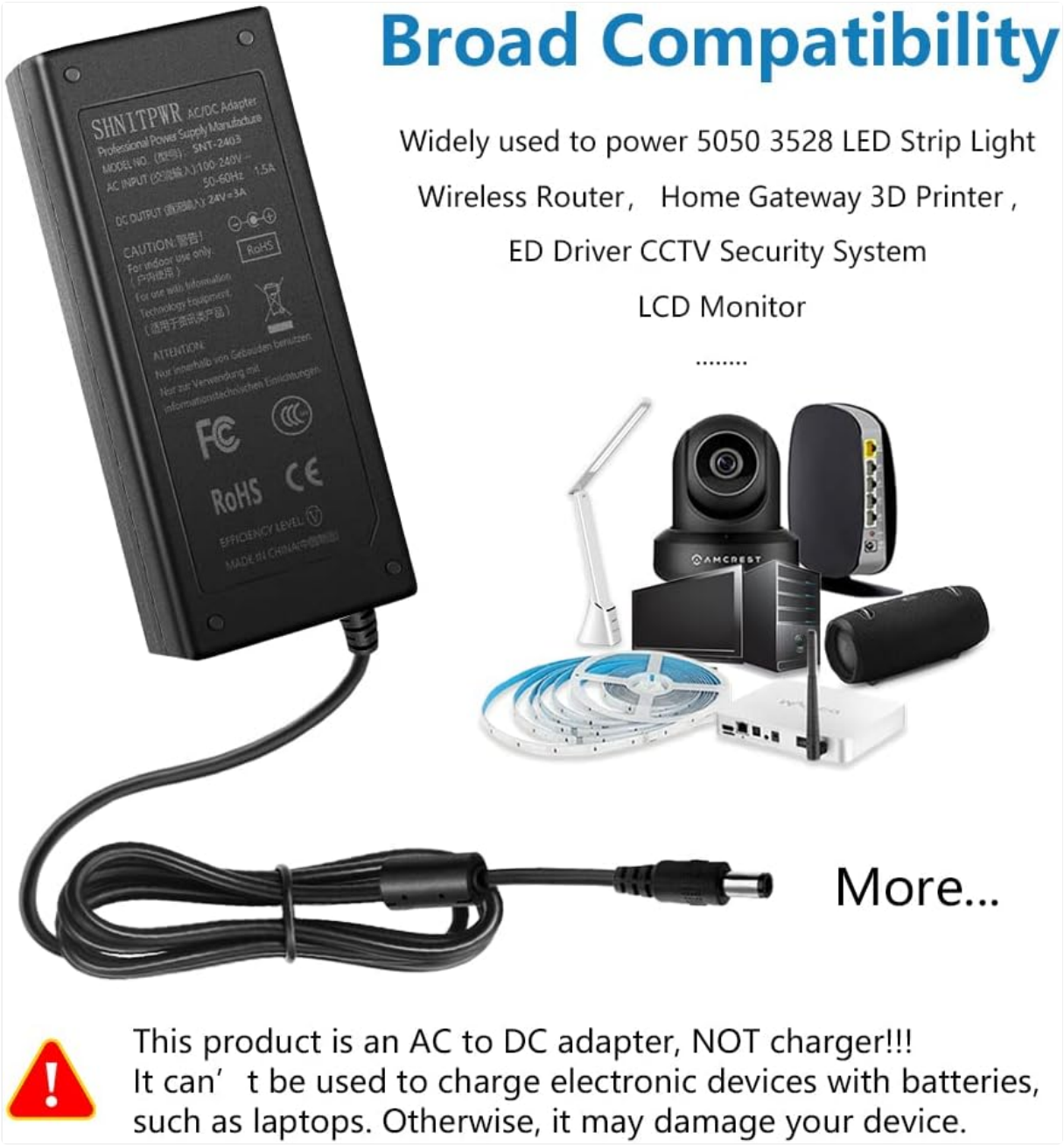

Figure 5.1: Broad Compatibility. This image displays the SHNITPWR AC/DC adapter alongside several compatible devices, including 5050/3528 LED Strip Lights, Wireless Routers, Home Gateway, 3D Printers, LED Drivers, CCTV Security Systems, and LCD Monitors, illustrating its versatile application.

6. Maintenance

- **Cleaning:** Disconnect the power supply from the wall outlet and the device before cleaning. Use a dry, soft cloth to wipe the surface. Do not use liquid cleaners.
- **Storage:** Store the adapter in a cool, dry place when not in use. Avoid wrapping the cord too tightly.
- **Inspection:** Periodically inspect the power cord and adapter for any signs of damage, such as frayed wires or cracks. Discontinue use if damage is found.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power output / LED indicator off	• AC power cord not properly connected. • Wall outlet is not functioning. • Device connected is drawing too much current (overload). • Defective power cord or adapter.	• Ensure AC power cord is fully inserted into both the adapter and the wall outlet. • Test the wall outlet with another device. • Disconnect the device and check if the LED lights up. If so, the device may be drawing too much power. • Try a different AC power cord if available. If the issue persists, the adapter may be faulty.
Adapter gets excessively hot	• Device is drawing close to or exceeding the maximum current (3A). • Poor ventilation around the adapter.	• Ensure the connected device's power requirements do not exceed 3A or 72W. Consider using the adapter at 80% load (approx. 57W) for optimal performance. • Place the adapter in an area with good airflow.
High-pitched whining sound	• This can sometimes occur with certain loads, especially when dimming LED lights, indicating a potential incompatibility or stress on internal components.	• If the noise is persistent and bothersome, or if the adapter is also getting hot, discontinue use and consider if the adapter is suitable for your specific application.

8. Specifications

Feature	Detail
Model Number	SNT-2403
Input Voltage	AC 100V-240V, 50/60Hz
Output Voltage	DC 24V
Max Output Current	3A
Max Output Wattage	72W
DC Connector Size	5.5mm x 2.5mm
Product Dimensions	106.69 x 1.97 x 1.18 inches (Adapter body)
Item Weight	9.2 ounces
Safety Certifications	FCC, CE, ROHS

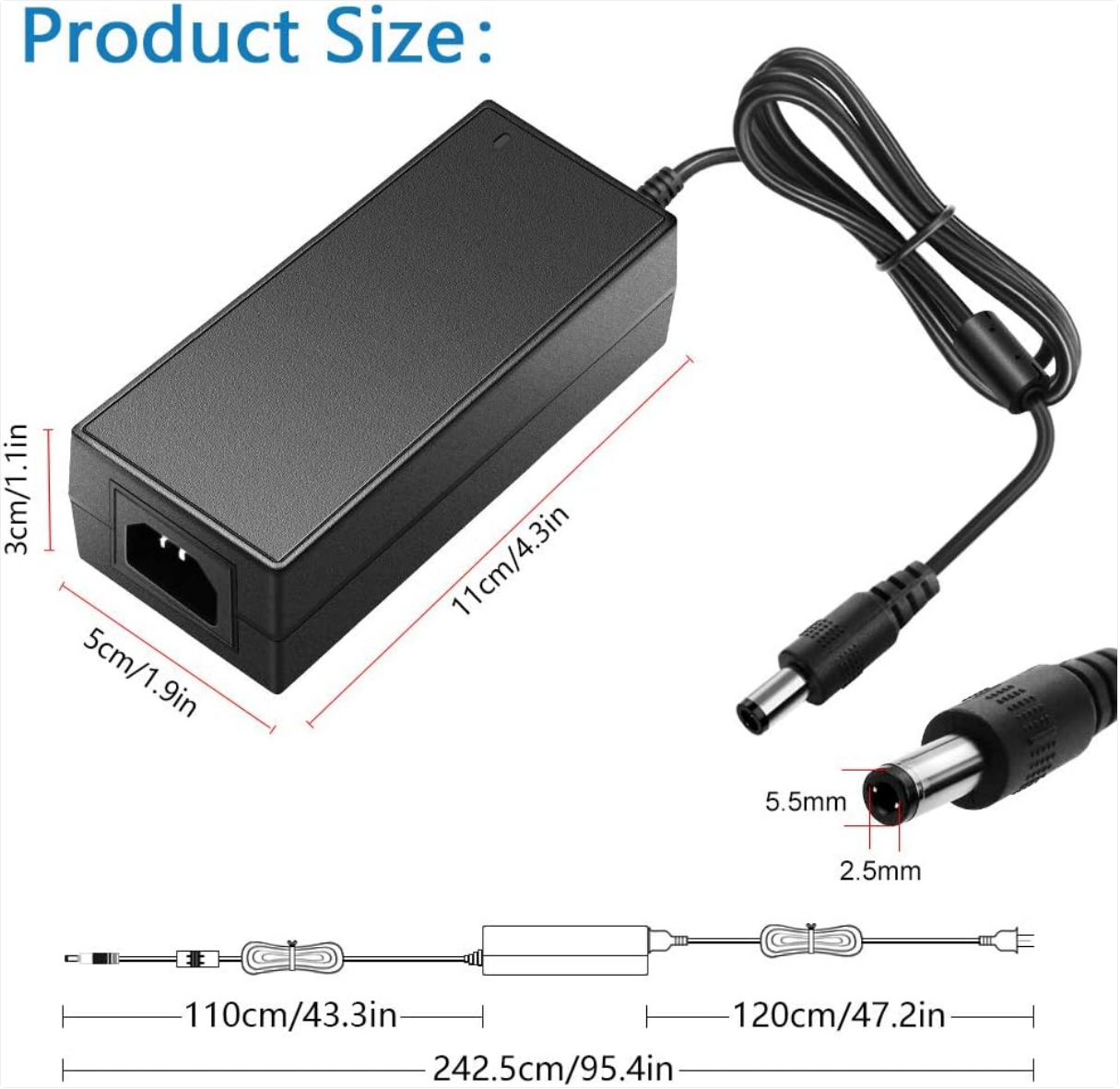

Figure 8.1: Product Size. This image provides detailed dimensions of the power adapter unit (approximately 11cm/4.3in long, 5cm/1.9in wide, 3cm/1.1in high) and the total cable length (approximately 242.5cm/95.4in), including the AC input cable and DC output cable with a 5.5mm x 2.5mm plug.

9. Warranty and Support

SHNITPWR products are designed for reliability and performance. For any issues or questions regarding your power supply, please contact SHNITPWR customer support. Refer to your purchase documentation for specific warranty terms and contact information.

Contact Information: Please refer to the seller's contact details on the platform where the product was purchased or visit the official SHNITPWR website for support.