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TMEZON AEP5A-A1

TMEZON 12V 5A Switching Power Supply Adapter User Manual

Model: AEP5A-A1

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your TMEZON 100V-240V to DC 12V 5A Switching Power Supply Adapter. This adapter is designed to convert AC input voltage to a stable DC 12V output, suitable for a variety of electronic devices requiring up to 5 Amperes of current.



Image 1.1: TMEZON 12V 5A Switching Power Supply Adapter. This image displays the complete power adapter unit, including the AC input plug, the main adapter block, and the DC output cable with its barrel connector.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to the adapter or connected devices, please observe the following safety guidelines:

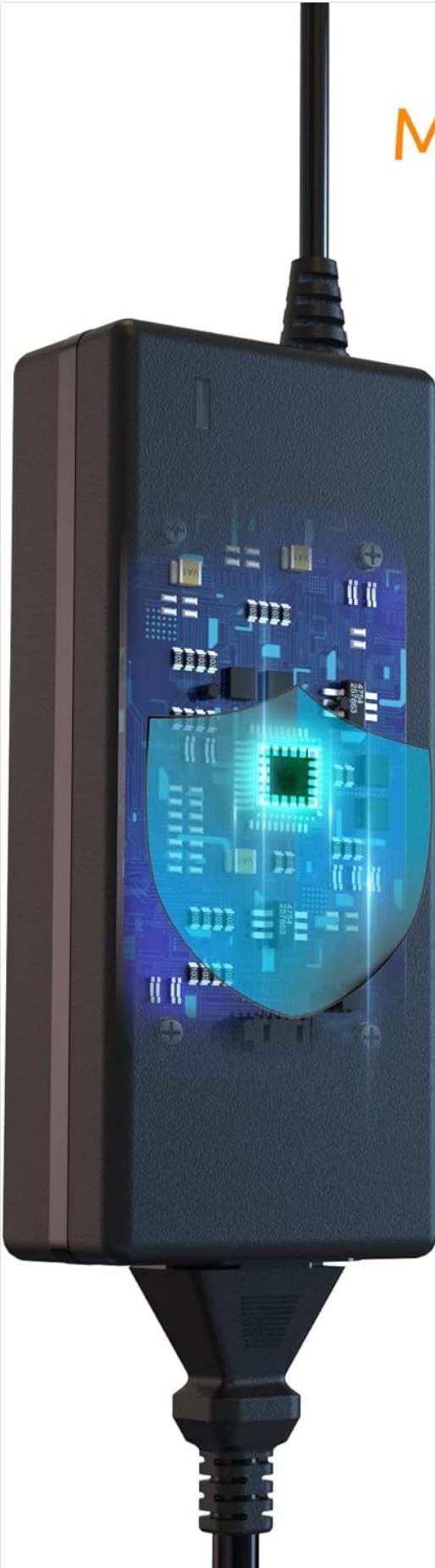
- **Indoor Use Only:** This power adapter is designed for indoor use exclusively. Do not expose it to

moisture, rain, or extreme temperatures.

- **Voltage Consistency:** The adapter provides stable voltage output, protecting electronic products from destruction due to fluctuations during power on, transmit, receive, or power off.
- **Protection Features:** The unit incorporates multiple safety mechanisms, including over-voltage protection, over-current protection, and short circuit protection.
- **Load Capacity:** For optimal performance and longevity, the maximum continuous load should not exceed 80% of the adapter's full capacity (i.e., for a 60W adapter, power devices requiring up to 48W).
- **Proper Connection:** Always ensure the adapter is correctly connected to both the power source and the device. Loose connections can cause overheating or malfunction.

MULTI PROTECTION

Safe to use



-  Over Voltage Protection
-  Over Current Protection
-  Anti Interference
-  short circuit Protection
-  over temperature protection
-  Overcharge Protection

Image 2.1: Multi-Protection Features. This graphic illustrates the various safety features built into the adapter, including over-voltage, over-current, anti-interference, short circuit, over-temperature, and overcharge protection, ensuring safe operation.

Image 2.2: Stable Voltage Output. This image shows the internal components of the adapter and highlights its ability to provide stable voltage, preventing damage from fluctuating power input.

3. PRODUCT OVERVIEW

The TMEZON 12V 5A Switching Power Supply Adapter is a robust and reliable power solution. It consists of an AC power cord, the main adapter unit, and a DC output cable with a barrel connector.

More Details

Items in a Packing Box



AC Cable



12V Power Supply



DC Output Size

(Size : 5.5inch 2.1mm)

Image 3.1: Components of the Power Supply. This image details the individual parts: the AC cable, the 12V power supply unit, and the DC output connector, specifying the 5.5mm x 2.1mm size.

3.1 Dimensions

- **Adapter Block Length:** Approximately 4.5 inches
- **Adapter Block Width:** Approximately 2.2 inches
- **Adapter Block Thickness:** Approximately 1.3 inches
- **DC Output Cable Length:** Approximately 55 inches
- **AC Input Cable Length:** Approximately 13.8 inches

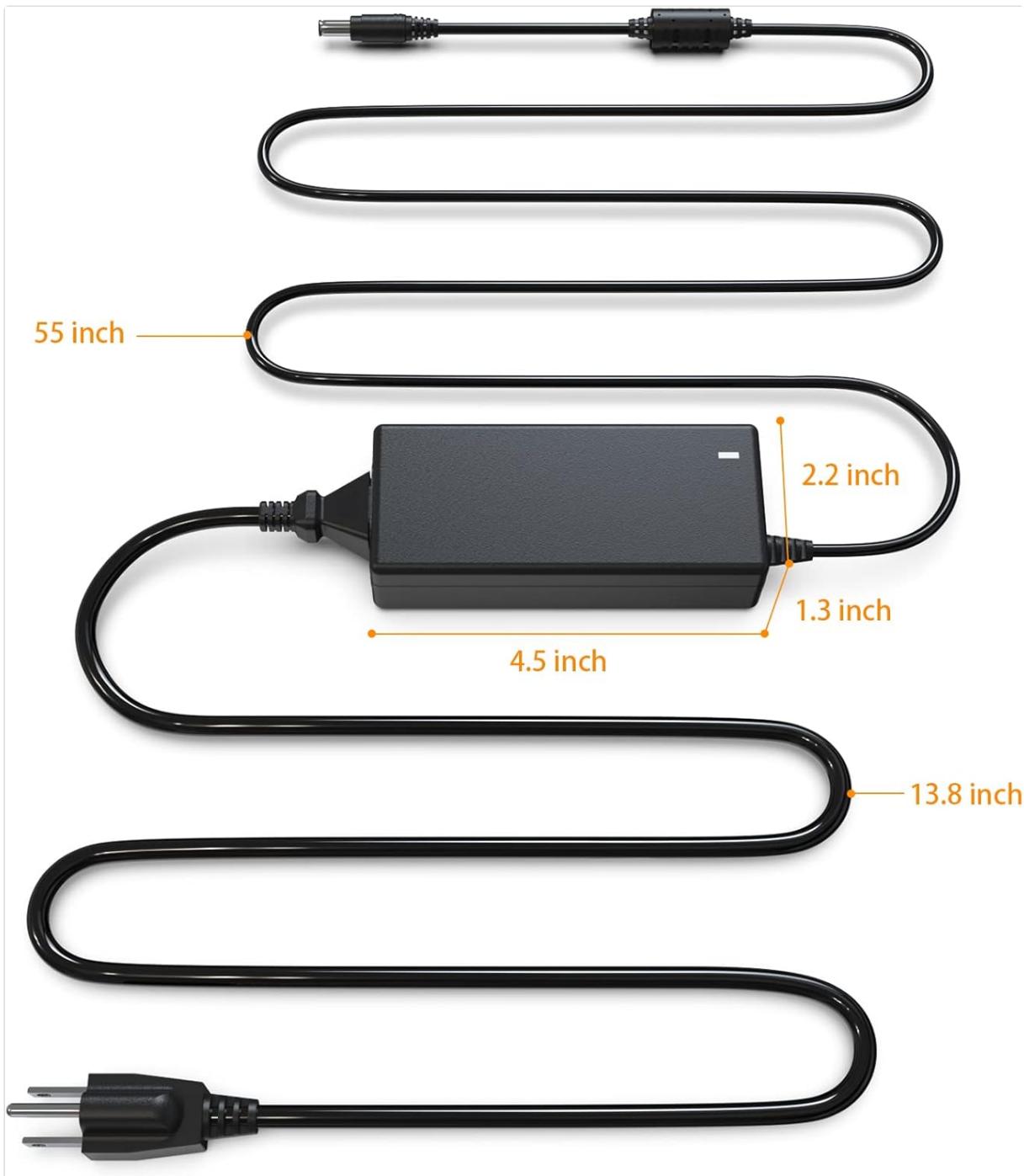


Image 3.2: Adapter Dimensions. This image provides a visual representation of the adapter's physical dimensions, including the lengths of the AC and DC cables and the measurements of the main adapter block.

3.2 Construction Materials

The adapter is constructed with high-quality materials for durability and efficient power delivery.

- **Wiring:** Features high-quality copper wire for efficient conductivity.
- **Insulation:** Utilizes PVC insulation jacket for safety and protection.

Made by Premium Materials

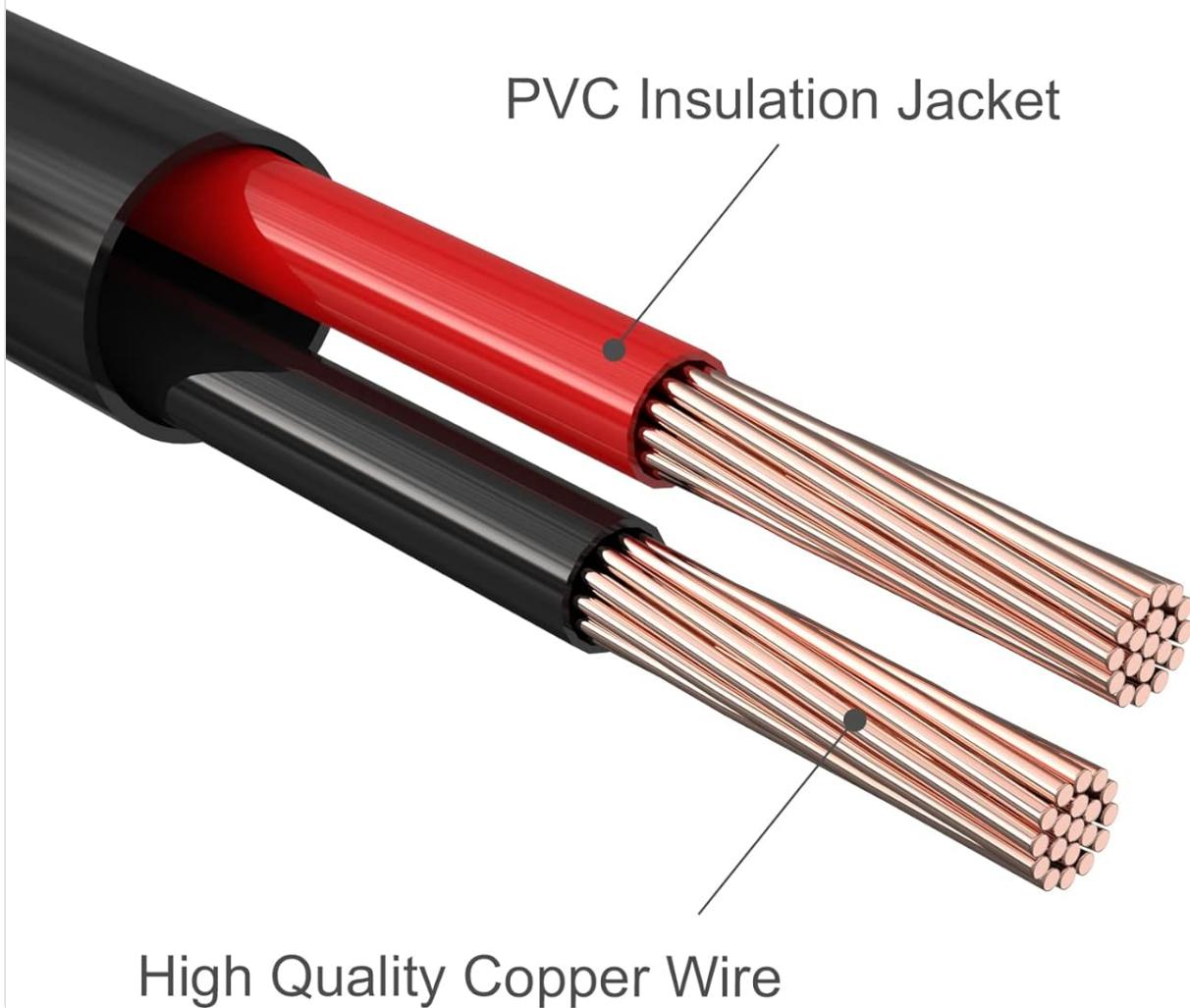


Image 3.3: Internal Wiring. This image shows a cross-section of the cable, highlighting the high-quality copper wire and PVC insulation jacket used in the adapter's construction.

4. SETUP AND INSTALLATION

Follow these steps to set up your TMEZON power adapter:

1. **Connect to Device:** Plug the DC barrel connector (5.5mm x 2.1mm, compatible with 5.5mm x 2.5mm) into the power input port of your electronic device.
2. **Connect to Power Outlet:** Insert the AC plug into a standard 100V-240V wall outlet.
3. **Verify Power:** Once connected, the adapter will supply power to your device. Check your device for power indicators.

The max use should
be \leq 80% of the full loads

We recommend you to use
12V 5A 60w power supply
to power devices **\leq 48w**



Image 4.1: Adapter in Use. This image demonstrates the adapter connected to a device, illustrating the proper connection method and emphasizing the recommended load limit of 80%.

4.1 DC Output Connector

The adapter features a self-adapting DC port that automatically adjusts to both 2.1mm and 2.5mm power inlet sizes, ensuring broad compatibility.

Attention

Self-adapting Dc Port , Automatically Adjusted to Both 2.1mm and 2.5mm Power Inlet Perfectly



Image 4.2: DC Output Connector. This image provides a detailed view of the DC barrel connector, highlighting its 5.5mm outer diameter and its compatibility with both 2.1mm and 2.5mm inner pin sizes.

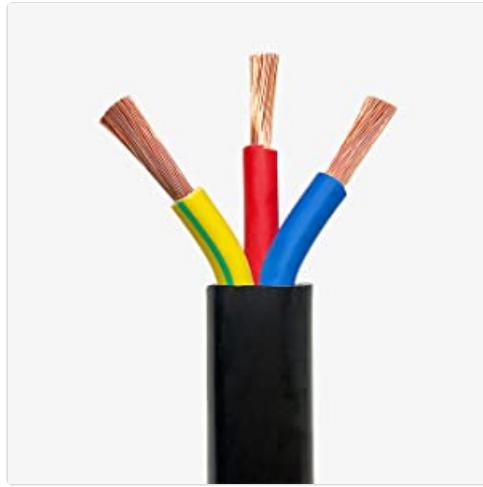


Image 4.3: DC Barrel Connector with Screw Terminals. This image shows an alternative connection method using a DC barrel connector with screw terminals, which can be used for custom wiring applications.

5. OPERATION

The TMEZON 12V 5A Switching Power Supply Adapter operates automatically once connected. It provides a continuous and stable 12V DC power output to the connected device. No user intervention is required during normal operation.

- Ensure the power requirements of your device do not exceed 12V 5A (60W).
- For prolonged reliability, it is recommended to operate the adapter at no more than 80% of its rated capacity (i.e., for a 60W adapter, power devices requiring up to 48W).

6. COMPATIBILITY AND APPLICATIONS

This power adapter is suitable for a wide range of 12V devices requiring 0-5 Amperes of current. Common applications include:

- LED strip lights
- Garden cameras
- 3D printers
- Ham radio transceivers
- CCTV cameras and security systems
- Car subwoofer amplifiers
- Audio amplifiers
- RC LiPo chargers
- Computer projects
- Wireless routers
- ADSL modems
- USB hubs
- Audio/video power supply needs

Application

For Most 12V Products (0-5 Amp)



CCTV Camera



LED Strip Light



Audio / VideoPlayer



Monitor



more
Other 12V Devices

Image 6.1: Product Applications. This image visually presents several common devices that can be powered by the TMEZON 12V 5A adapter, such as CCTV cameras, LED strip lights, audio/video players, and monitors.

7. MAINTENANCE

The TMEZON power adapter requires minimal maintenance. Adhere to the following for optimal performance and longevity:

- Keep the adapter clean and free from dust. Use a dry, soft cloth for cleaning.
- Ensure adequate ventilation around the adapter to prevent overheating. Do not cover it.

- Avoid placing the adapter in direct sunlight or near heat sources.
- Do not expose the adapter to liquids or high humidity.
- Regularly inspect the cables for any signs of damage (fraying, cuts). If damage is found, discontinue use and replace the adapter.

8. TROUBLESHOOTING

If you encounter issues with your power adapter, consider the following common troubleshooting steps:

- **No Power Output:**
 - Check if the AC plug is securely inserted into the wall outlet.
 - Verify that the DC barrel connector is fully inserted into your device's power port.
 - Test the wall outlet with another device to ensure it is functioning.
 - Ensure your device's power requirements do not exceed 12V 5A (60W). An overloaded adapter may shut down due to over-current protection.
- **Device Malfunction:**
 - Confirm that your device requires 12V DC power and that the barrel connector size is compatible (5.5mm x 2.1mm or 5.5mm x 2.5mm).
 - If the device is still not functioning, try using a different compatible power adapter to rule out a device issue.
- **Overheating:**
 - Ensure the adapter is not covered and has adequate airflow.
 - Reduce the load on the adapter if it is powering multiple devices or a high-power device close to its maximum capacity.

If problems persist after following these steps, please contact TMEZON customer support.

9. SPECIFICATIONS

Feature	Specification
Input Voltage	100V-240V AC, 50/60Hz
Output Voltage	DC 12V
Output Current	5A (max)
Output Wattage	60W (max)
Output Adaptor Jack Size	5.5mm x 2.1mm (compatible with 5.5mm x 2.5mm)
Plug Type	US Plug
Safety Features	Over-voltage protection, Over-current protection, Short circuit protection
Product Dimensions	5.91 x 1.18 x 8.66 inches (overall, including cables)
Item Weight	9.9 ounces
Model Number	AEP5A-A1
Manufacturer	TMEZON

10. WARRANTY AND SUPPORT

TMEZON offers a **1-year warranty** for this product. If you have any questions, concerns, or require technical assistance, please do not hesitate to contact TMEZON customer support. Refer to your purchase documentation for specific contact details.

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Related Documents - AEP5A-A1

	<p>Tmezon 2-Wire IP Video Intercom System User Manual</p> <p>Comprehensive user manual for the Tmezon 2-Wire IP Video Intercom System, covering installation, setup, operation, app integration, RFID card management, and troubleshooting for your smart home security.</p>
	<p>Tmezon Wireless Security Camera Quick Guide: Setup and Installation</p> <p>Comprehensive quick guide for Tmezon Wireless Security Cameras, covering interface description, software installation, account login, camera adding processes (Remote View, Direct Connection, Wired), and troubleshooting. Learn how to set up your Tmezon camera easily.</p>

 Tmezon 2-Wire Villa Video Intercom User Manual Comprehensive user manual for the Tmezon 2-Wire Villa Video Intercom system, covering installation, operation, specifications, wiring diagrams, and troubleshooting for both indoor monitor and outdoor doorbell units. Learn how to set up and use your video intercom for enhanced home security and communication.
 Tmezon 2-Wire IP 7 Inch Video Door Phone Operation Instruction Manual Comprehensive operation instructions for the Tmezon 2-Wire IP 7 Inch Video Door Phone, covering installation, setup, features, and troubleshooting.
 TMEZON Smart Door Lock Troubleshooting and FAQ Find solutions to common issues and frequently asked questions for your TMEZON smart door lock, covering installation, battery usage, and handle adjustments.
 TMEZON IP Video Door Phone System User Manual User manual for the TMEZON IP Video Door Phone System, covering installation, setup, operation, and troubleshooting for the indoor monitor and outdoor camera.