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› [SOLTECH 12V 3A Power Supply Adapter Instruction Manual for CCTV Security Cameras and 12V Devices](#)

SOLTECH PA12V3A1PA

SOLTECH 12V 3A Power Supply Adapter Instruction Manual

Model: PA12V3A1PA | Brand: SOLTECH

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your SOLTECH 12V 3A Power Supply Adapter. Please read these instructions carefully before installation and operation. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The SOLTECH 12V 3A Power Supply Adapter is designed to provide stable and reliable power for a variety of 12V DC devices. It features multiple safety protections and broad compatibility.

Key Features:

- **Input:** AC 100-240V, 50/60Hz
- **Output:** DC 12V, 3A (3000mA), 36W (Max)
- **DC Connector Size:** 5.5mm x 2.1mm
- **Safety Protections:** Over-voltage, Over-current, Over-temperature, Over-load, Input, and Short-circuit protection.
- **Certifications:** UL, FCC, CE, RoHS, REACH, SAA, RCM, PSE, GS, CB, KC, CCC.
- **Material:** Constructed with fire-resistant PC materials (UL 94-V0 rated).

What's in the Box:

- 1 x SOLTECH 12V 3A Power Adapter



Figure 2.1: SOLTECH 12V 3A Power Supply Adapter.

3. SAFETY INFORMATION

Your safety is paramount. This power adapter is designed with multiple safeguards to ensure safe operation.

Important Safety Precautions:

- Do not expose the adapter to water, moisture, or high humidity.
- Do not disassemble or modify the adapter.
- Ensure the adapter is used within its specified input and output voltage/current limits.
- Avoid placing the adapter in poorly ventilated areas or near heat sources.
- Keep out of reach of children.

Built-in Protections:

- **Over-Voltage Protection:** Prevents damage from excessive voltage.
- **Over-Current Protection:** Safeguards against excessive current draw.
- **Over-Temperature Protection:** Protects against overheating.
- **Over-Load Protection:** Prevents damage from exceeding maximum load capacity.
- **Input Protection:** Guards against input irregularities.
- **Short-Circuit Protection:** Automatically shuts off power in case of a short circuit.

A safe & reliable choice for powering your devices



The built-in safeguards help to protect your devices from unexpected surges and spikes



Figure 3.1: The adapter includes multiple safety features to protect your devices.

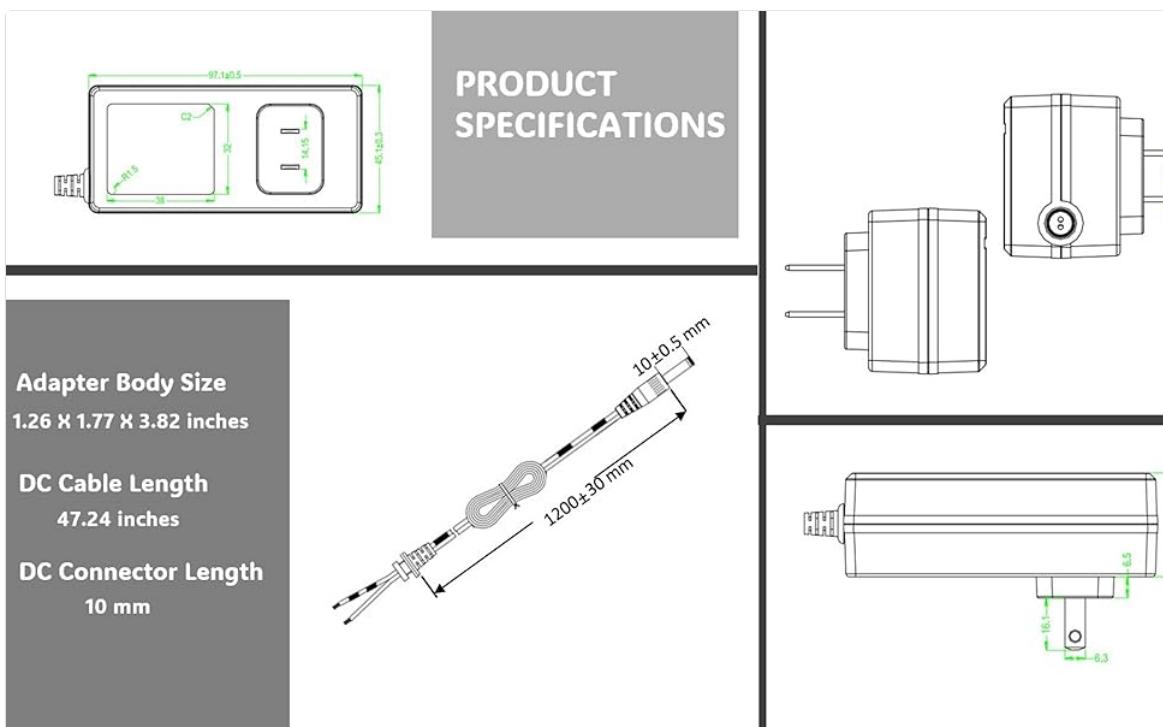


Figure 3.2: The adapter is crafted to meet rigorous safety and quality benchmarks, including UL Listing.

4. SETUP

Follow these steps to properly set up your SOLTECH 12V 3A Power Supply Adapter:

- 1. Verify Device Compatibility:** Ensure your device requires a 12V DC input and draws no more than 3A (3000mA) of current. Check your device's power input specifications.
- 2. Check Connector Size:** Confirm that your device's power input port is compatible with a 5.5mm outer diameter and 2.1mm inner diameter DC barrel connector.

3. **Observe DC Polarity:** The adapter features a center-positive polarity. Ensure your device also requires center-positive polarity. Connecting with incorrect polarity can damage your device.
4. **Connect to Device:** Insert the DC barrel connector firmly into your device's power input port.
5. **Connect to Power Outlet:** Plug the AC prongs of the adapter into a standard 100-240V AC wall outlet.
6. **Power On:** Your device should now receive power.



Figure 4.1: Confirming DC connector dimensions and polarity is crucial for proper setup.

5. OPERATING INSTRUCTIONS

The SOLTECH 12V 3A Power Supply Adapter operates on a plug-and-play principle. Once connected as described in the Setup section, it will continuously supply power to your device.

- Ensure all connections are secure before powering on.
- The adapter is designed for continuous operation within its specified limits.
- To disconnect power, unplug the adapter from the wall outlet first, then disconnect from the device.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power adapter.

- **Cleaning:** Disconnect the adapter from power before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the adapter in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Inspection:** Periodically inspect the adapter and its cable for any signs of damage, such as frayed wires or cracked casing. If damage is found, discontinue use and replace the adapter.

7. TROUBLESHOOTING

If you encounter issues with your power adapter, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Device not powering on	No power from outlet Loose connection Incorrect voltage/current Incorrect DC connector size/polarity Faulty adapter/device	Test outlet with another device. Ensure all connections are secure. Verify device's power requirements match adapter's output. Confirm DC connector size and polarity. Try a different compatible adapter or test the device with its original adapter if available.
Adapter feels hot	Normal operation (slight warmth) Overload Poor ventilation	A slight warmth is normal. If excessively hot, disconnect immediately. Ensure device's current draw does not exceed 3A. Place adapter in a well-ventilated area.
Intermittent power	Loose connection Damaged cable/adapter	Check and secure all connections. Inspect cable and adapter for damage. Replace if damaged.

8. SPECIFICATIONS

Feature	Specification
Model Number	PA12V3A1PA
Input Voltage	AC 100-240V, 50/60Hz
Output Voltage	DC 12V
Output Current	3A (3000mA)
Max Wattage	36W
DC Connector Size	5.5mm (Outer) x 2.1mm (Inner)
DC Cable Length	47.24 inches (approx. 1.2 meters)
Adapter Body Size	1.26 x 1.77 x 3.82 inches
Item Weight	2.89 ounces
Certifications	UL, FCC, CE, RoHS, REACH, SAA, RCM, PSE, GS, CB, KC, CCC
Material	Fire-resistant PC (UL 94-V0 rated)



Figure 8.1: Detailed dimensions of the power adapter and cable.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact SOLTECH customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.