

Geekworm PSU60

Geekworm DC 12V 5A 60W Power Adapter Instruction Manual

Model: PSU60

1. PRODUCT OVERVIEW

This document provides instructions for the Geekworm DC 12V 5A 60W Power Adapter. This power adapter is a high-quality, UL Listed power supply designed to provide stable 12V DC power at up to 5A (60W maximum) from an AC 100-240V source. It features a DC5521 connection and is compatible with various electronic devices.



Figure 1: The Geekworm DC 12V 5A 60W Power Adapter with its attached power cable and DC output connector.

2. PRODUCT SPECIFICATIONS

Specification	Value
Product Name	AC/DC Power Adapter
Brand	Geekworm
Model	PSU60
Input	100-240V AC, 50/60Hz, 1.2A Max
Output	12V DC, 5A Max, 60W
DC Connector Size	5.5 x 2.1 mm
Cable Length	1.2 m / 47.24 inches
Dimensions	88 x 46 x 70 mm / 3.46 x 1.81 x 2.75 inches
Item Weight	7.1 ounces
Certifications	UL Listed



Figure 2: Detailed dimensions of the power adapter and its DC output connector.

3. SETUP AND OPERATION

The Geekworm DC 12V 5A 60W Power Adapter is designed for straightforward use. Follow these steps for proper setup and operation:

1. **Connect to Device:** Insert the DC 5.5x2.1mm output jack of the power adapter into the corresponding power input port of your electronic device. Ensure a secure connection.
2. **Connect to Power Outlet:** Plug the AC input plug of the power adapter into a standard AC 100-240V wall outlet.
3. **Power On:** Once connected, the power adapter will supply power to your device. Verify that your device powers on correctly.

The adapter features an anti-interference magnetic ring on the cable to help ensure stable current transmission and reduce electromagnetic interference.

60W 12V Max.5A



US Plug



DC 5.5 x 2.1mm



Anti-interference magnetic ring

Figure 3: The power adapter showing its US plug, DC 5.5x2.1mm output jack, and anti-interference magnetic ring.

4. COMPATIBILITY

This power adapter is compatible with a wide range of devices requiring 12V DC power up to 5A, including:

- Raspberry Pi expansion boards such as X735 V3.0, X885, X729, X1202, X1203, X1205, X1009, X-UPS1, X1013, X880, X715, X1008, X1010, NASPi Gemini 2.5, NASPi Gemini 3.5.
- LED strips
- 3D printers
- Security cameras
- Audio amplifiers
- TFT monitors
- TV boxes



Figure 4: Examples of devices compatible with the power adapter, including Raspberry Pi expansion boards, monitors, and TV boxes.

5. SAFETY FEATURES

The Geekworm DC 12V 5A 60W Power Adapter is UL Listed and incorporates multiple safety protections to ensure reliable and safe operation:

- **Over Voltage Protection:** Safeguards connected devices from excessive voltage.
- **Under Voltage Protection:** Prevents damage from insufficient voltage supply.
- **Over Temperature Protection:** Automatically shuts down if the adapter overheats.
- **Over Current Protection:** Protects against damage from excessive current draw.
- **Short Circuit Protection:** Prevents damage in case of a short circuit.

Charing Safety



Figure 5: Visual representation of the multiple safety protections integrated into the power adapter.

6. PERFORMANCE TEST VIDEO

Watch this video to see a performance test of the DC5521 12V 5A Power Supply, demonstrating its stability under load. The voltage fluctuation is maintained within $\pm 5\%$.

Video 1: DC5521 12V 5A Power Supply Test. This video demonstrates the power adapter's performance, showing voltage stability under varying loads.

7. TROUBLESHOOTING

• No Power Output:

- Ensure the AC plug is securely inserted into a live wall outlet.
- Verify the DC output jack is firmly connected to your device.
- Check if the device itself is functioning correctly with another power source, if available.

• Device Not Functioning Correctly:

- Confirm that your device requires 12V DC power and does not exceed the 5A (60W) maximum output of this adapter.
- Inspect the DC connector for any damage or debris.
- **Adapter Overheating:**
 - Ensure the adapter is used in a well-ventilated area.
 - Verify that the total power consumption of the connected device(s) does not exceed 60W. It is recommended to keep the load below 80% (48W) for optimal performance and longevity.

8. MAINTENANCE

To ensure the longevity and optimal performance of your power adapter, follow these maintenance guidelines:

- Keep the adapter clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the adapter to extreme temperatures, humidity, or direct sunlight.
- Do not place heavy objects on the power cable or adapter.
- Store the adapter in a cool, dry place when not in use.

9. WHAT'S IN THE BOX

The package includes:

- 1x Geekworm DC 12V 5A 60W Power Adapter with US Plug

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the product packaging or contact Geekworm customer service directly. Specific warranty terms may vary.

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