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› Cooler Master RS-550-AMAA-B1 550W GM Power Supply Unit User Manual

Cooler Master RS-550-AMAA-B1 (550W GM)

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User Manual

Model: RS-550-AMAA-B1 (550W GM)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Cooler Master RS-550-AMAA-B1 550W GM Power Supply Unit (PSU). Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

The Cooler Master 550W GM PSU is an 80 PLUS Bronze certified power supply designed for optimal efficiency and reliable power delivery to your computer components. It features a modular cable design for improved cable management and a powerful single +12V rail for stable performance.



Image 1.1: Cooler Master 550W GM Power Supply Unit and packaging.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to your equipment:

- Ensure the power supply is disconnected from the AC outlet before installation or maintenance.
- Do not open the PSU casing. High voltages are present inside, even when disconnected.
- Install the PSU in a well-ventilated area. Do not block the fan or ventilation openings.
- Use only the modular cables provided with the PSU. Using incompatible cables may cause damage.
- Avoid exposing the PSU to moisture or extreme temperatures.
- If the PSU is damaged or not functioning correctly, do not attempt to repair it. Contact Cooler Master support.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Cooler Master RS-550-AMAA-B1 550W GM Power Supply Unit
- Modular Cable Set (see list below)
- AC Power Cord (region specific)
- Mounting Screws
- User Manual (this document)

3.1 Modular Cable Set

The modular design allows you to connect only the cables you need, reducing clutter and improving airflow within

your PC case.



Image 3.1: Included modular cables and AC power cord.

- 1x 20+4 Pin ATX Main Power Cable
- 1x 4+4 Pin EPS/ATX 12V Cable
- 2x 6+2 Pin PCI-e Power Cables
- Multiple SATA Power Cables
- Multiple 4-Pin Peripheral (Molex) Power Cables

4. PRODUCT OVERVIEW

Familiarize yourself with the various parts of your power supply unit.



Image 4.1: Top view showing the cooling fan and modular cable connections.



Image 4.2: Rear view showing the AC power input and On/Off switch.

- **Cooling Fan:** 120mm fan for efficient heat dissipation.
- **Modular Cable Ports:** Clearly labeled ports for connecting various power cables.
- **AC Power Inlet:** Connects the PSU to the wall outlet via the AC power cord.
- **Power Switch:** Toggles the power supply On or Off.

5. SETUP AND INSTALLATION

Follow these steps to properly install your power supply unit into your computer system.

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case.
2. **Remove Old PSU (if applicable):** Disconnect all cables from your old power supply and remove its mounting screws. Carefully slide it out of the case.
3. **Install New PSU:** Slide the Cooler Master 550W GM PSU into the designated PSU bay in your computer case. Align the mounting holes and secure the PSU with the provided screws.
4. **Connect Modular Cables:** Identify the necessary cables for your components (motherboard, CPU, graphics card, storage drives, etc.). Connect the required modular cables to the corresponding ports on the PSU. Ensure a firm connection.



Image 5.1: PSU with main ATX and other modular cables.

5. Connect to Components:

- **Motherboard:** Connect the 20+4 Pin ATX Main Power Cable to your motherboard's main power connector.
- **CPU:** Connect the 4+4 Pin EPS/ATX 12V Cable to your motherboard's CPU power connector.
- **Graphics Card(s):** Connect the 6+2 Pin PCI-e Power Cables to your graphics card(s) if they require external power.
- **Storage Drives:** Connect SATA power cables to your SSDs, HDDs, and optical drives.
- **Peripherals:** Connect 4-Pin Peripheral (Molex) cables to any other components requiring this type of power.

6. **Cable Management:** Route cables neatly to improve airflow and aesthetics. Use cable ties if necessary.

7. **Close Case:** Once all connections are secure, close your computer case.

8. **Connect AC Power:** Plug the provided AC power cord into the PSU's AC inlet and then into a wall outlet.

6. OPERATING INSTRUCTIONS

After successful installation, operating your PSU is straightforward:

1. Ensure the power switch on the back of the PSU is in the 'O' (Off) position before connecting the AC power cord.
2. Connect the AC power cord to the PSU and then to a wall outlet.
3. Flip the power switch on the back of the PSU to the 'I' (On) position.
4. You can now power on your computer using its front panel power button.
5. To power off your computer, shut down the operating system normally. For complete power disconnection, flip the PSU switch to 'O' and unplug the AC cord.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your PSU:

- **Cleaning:** Periodically clean the PSU's fan and ventilation grilles to prevent dust buildup. Use compressed air to gently blow dust out of the unit. Ensure the PSU is powered off and unplugged before cleaning.
- **Environment:** Operate the PSU in a clean, dry, and well-ventilated environment. Avoid extreme temperatures and humidity.
- **Cable Integrity:** Regularly check all cable connections to ensure they are secure and not damaged.

8. TROUBLESHOOTING

If you encounter issues with your Cooler Master 550W GM PSU, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
PSU does not power on.	AC power cord not connected or loose; PSU switch is off; faulty wall outlet; internal PSU issue.	Ensure AC cord is firmly connected. Flip PSU switch to 'I' (On). Test wall outlet with another device. If problem persists, contact support.
Computer powers on but immediately shuts down.	Overload; short circuit; component malfunction.	Check all cable connections for proper seating. Ensure total power draw does not exceed PSU capacity. Disconnect non-essential components to isolate the issue.
Loud fan noise from PSU.	Dust buildup in fan; fan bearing issue; PSU under heavy load.	Clean the fan and vents with compressed air. Ensure adequate airflow in the case. If noise persists and is excessive, contact support.
Burning smell or smoke.	Serious internal component failure.	Immediately disconnect power from the wall outlet. Do NOT attempt to use the PSU. Contact Cooler Master support immediately.

If the issue persists after attempting these solutions, please contact Cooler Master customer support for further assistance.

9. SPECIFICATIONS

Detailed technical specifications for the Cooler Master RS-550-AMAA-B1 550W GM Power Supply Unit:

Feature	Specification
Model Name	RS-550-AMAA-B1 (550W GM)
Wattage	550 Watts
Efficiency Certification	80 PLUS Bronze (up to 88% efficiency)
Input Voltage	100-240V
Input Frequency	50-60 Hz
Fan Size	120 mm
Form Factor	ATX
Dimensions (L x W x H)	14 x 15 x 8.6 cm (5.51 x 5.91 x 3.39 inches)
Weight	1.21 kg (2.67 lbs)
Cooling Method	Air
Connector Types	ATX, 12V 4+4 pin, PCI Express, SATA, 4-pin Peripheral

10. WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cooler Master website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the Cooler Master support portal or contact their customer service department. Contact information can typically be found on the Cooler Master website or product packaging.

Cooler Master Official Website: www.coolermaster.com