

Rosewill CMG1000G5

Rosewill CMG5 1000W Modular Power Supply User Manual

Model: CMG1000G5

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Rosewill CMG5 1000W Modular Power Supply. Please read this manual thoroughly before installation and retain it for future reference.

The Rosewill CMG5 1000W is a fully modular 80 PLUS Gold certified power supply designed for personal computers. It is compatible with ATX 3.0 & 3.1 standards and features a native 600W PCIe 5.0 / Gen 5 12+4 Pin 12V-2x6 cable, supporting modern high-performance graphics cards.



Image: Front view of the Rosewill CMG5 1000W Modular Power Supply, showing the fan grille and branding.

2. SAFETY INFORMATION

WARNING: Improper installation or use can lead to serious injury or equipment damage. Always follow these safety guidelines:

- Ensure the power supply is disconnected from the AC power outlet before installation or handling.
- Do not open the power supply unit. High voltages are present inside, and there are no user-serviceable parts.
- Install the power supply in a well-ventilated area. Do not block any ventilation openings.
- Use only the modular cables provided with this power supply. Using incompatible cables can damage the PSU and connected components.
- Ensure all cable connections are secure and fully seated to prevent electrical shorts or overheating.
- Avoid exposing the power supply to moisture or extreme temperatures.
- If the power supply emits smoke, unusual odors, or loud noises, immediately disconnect it from the AC power and contact support.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Rosewill CMG5 1000W Modular Power Supply Unit
- AC Power Cord

- Modular Cable Set (see below for details)
- Mounting Screws
- User Manual (this document)

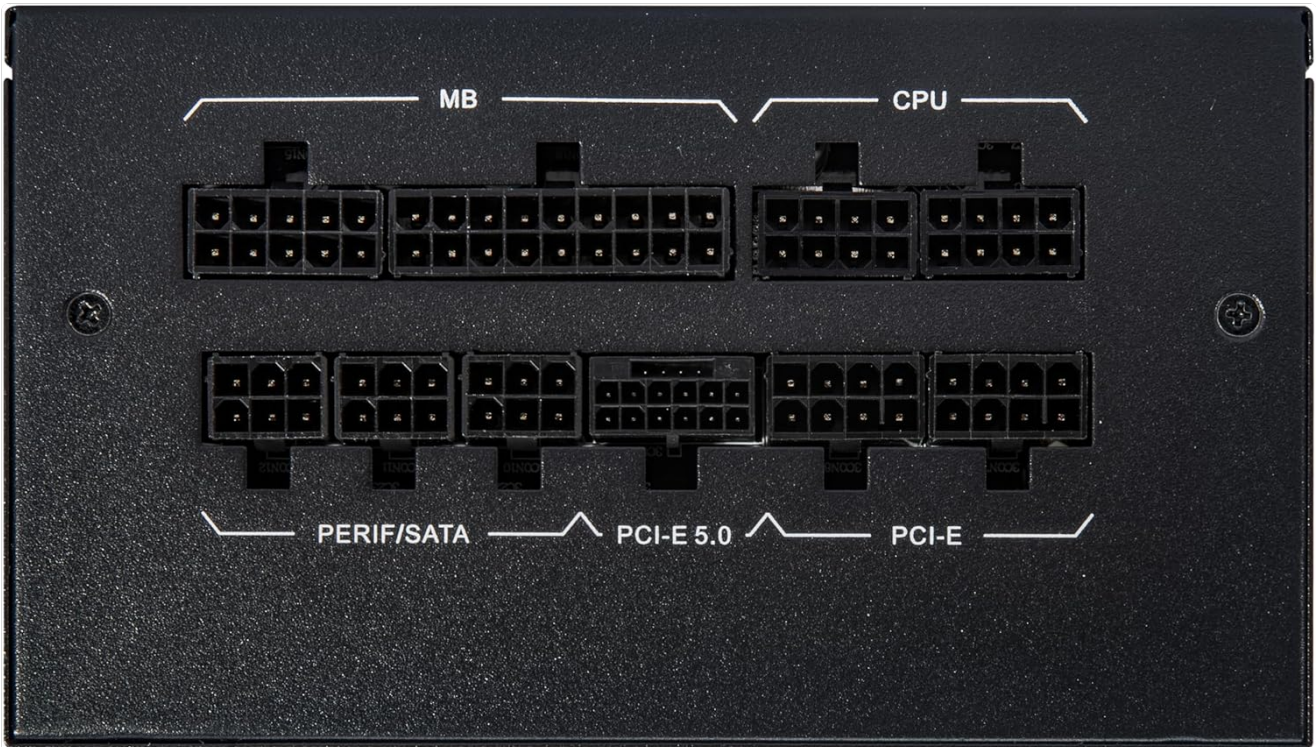






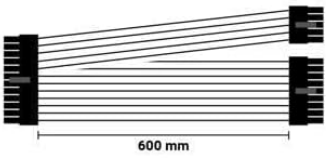
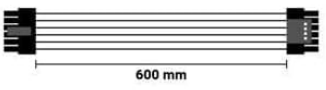
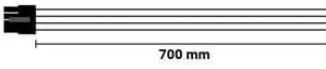
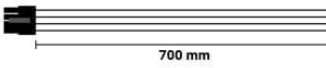
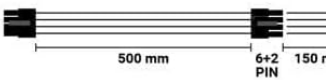
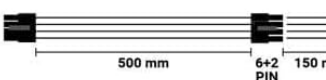
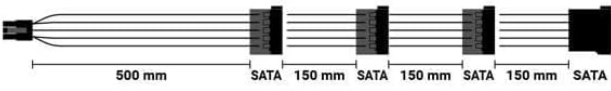
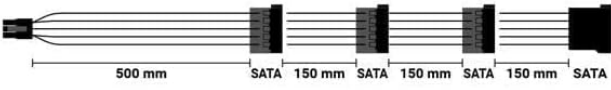



Image: Rear panel of the Rosewill CMG5 1000W Power Supply showing the modular cable connection ports labeled for MB, CPU, PERIF/SATA, PCI-E 5.0, and PCI-E.

Modular Cable Set:

 x1 24 PIN Motherboard	 x1 12+4 PIN PCI-E 5.0	 x2 4+4 PIN CPU	 x4 6+2 PIN PCI-E	 x8 SATA	 x4 4 PIN Molex
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 24 PIN 600 mm	 12+4 PIN 600 mm	 4+4 PIN 700 mm	 4+4 PIN 700 mm	 500 mm 6+2 PIN 150 mm 6+2 PIN	 500 mm 6+2 PIN 150 mm 6+2 PIN	 500 mm SATA 150 mm SATA 150 mm SATA 150 mm SATA	 500 mm 4 PIN Molex 150 mm 4 PIN Molex 150 mm 4 PIN Molex 150 mm 4 PIN Molex
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86 mm
3.38 in

150 mm
5.91 in

140 mm
5.51 in

Image: Diagram illustrating the types and lengths of modular cables included with the Rosewill CMG5 1000W Power Supply, including 24-pin Motherboard, 12+4-pin PCIe 5.0, 4+4-pin CPU, 6+2-pin PCIe, SATA, and 4-pin Molex connectors.

- 1x 24-pin Motherboard Cable (600mm)
- 1x 12+4-pin PCIe 5.0 Cable (600mm)
- 2x 4+4-pin CPU Cables (700mm each)
- 4x 6+2-pin PCIe Cables (500mm each, with two connectors per cable)
- 2x SATA Cables (500mm, with four SATA connectors per cable)
- 1x 4-pin Molex Cable (500mm, with four Molex connectors)

4. SETUP AND INSTALLATION

Follow these steps to install your Rosewill CMG5 1000W Power Supply:

1. Prepare Your System:

- Turn off your computer and disconnect the AC power cord from the wall outlet.
- Open your computer case.
- If replacing an existing power supply, disconnect all cables from the old PSU and remove it from the case.

2. Install the Power Supply:

- Carefully place the new Rosewill CMG5 1000W PSU into the power supply bay of your computer case.
- Secure the PSU to the case using the provided mounting screws. Ensure the fan is facing the correct direction for optimal airflow (typically facing down if there's a bottom vent, or up if not).

3. Connect Modular Cables:

- Identify the necessary cables for your components (Motherboard, CPU, PCIe, SATA, Molex). Refer to the "Package Contents" section for cable types.
- Connect the required modular cables to the corresponding ports on the power supply unit. Ensure they click firmly into place.
- Connect the other end of each cable to your motherboard, CPU, graphics card(s), storage drives, and other peripherals. Pay close attention to the orientation of each connector.
- For PCIe 5.0 graphics cards, use the dedicated 12+4-pin PCIe 5.0 cable. Ensure it is fully inserted into both the PSU and the graphics card.

4. Final Checks:

- Double-check all cable connections to ensure they are secure. Loose connections can cause system instability or damage.
- Organize cables to improve airflow within the case.
- Close your computer case.

5. Power On:

- Connect the AC power cord to the power supply and then to a wall outlet.
- Flip the main power switch on the back of the PSU to the "ON" position.
- Power on your computer.



Image: Rear view of the Rosewill CMG5 1000W Power Supply, showing the AC power input, main power switch, and an "ECO" mode switch.

5. OPERATING INSTRUCTIONS

The Rosewill CMG5 1000W Power Supply is designed for reliable and efficient operation.

Eco Silent Mode:

- The power supply features an "ECO" mode switch located on the rear panel.
- When the ECO mode is **ON**, the 120mm Fluid Dynamic Bearing (FDB) fan will operate in a semi-fanless mode. The fan will remain off under low to moderate loads, providing silent operation. It will automatically spin up when the load increases to maintain optimal temperatures.
- When the ECO mode is **OFF**, the fan will operate continuously, adjusting its speed based on the internal temperature and load.
- Choose the mode that best suits your preference for noise levels and cooling performance.

Power Excursion Capabilities:

This power supply is designed to handle power excursions up to 235% and GPU power excursions up to 300%, ensuring stable power delivery during peak demands from high-performance components.

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille to prevent dust buildup. Use compressed air to gently clear dust from the fan blades and internal components. Ensure the PSU is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are not obstructing airflow within your computer case. Re-route or tie cables as needed to maintain good ventilation.
- **Environmental Conditions:** Operate the power supply in a clean, dry environment with adequate ventilation. Avoid extreme temperatures and humidity.

7. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Computer does not power on.	AC power cord not connected. Main power switch on PSU is OFF. Loose cable connections. Faulty components (motherboard, CPU, etc.).	Ensure AC power cord is securely connected to PSU and wall outlet. Flip the main power switch on the PSU to the "ON" position. Check all modular cable connections (24-pin, CPU, PCIe) are fully seated. Test components individually if possible.
System crashes or restarts randomly.	Insufficient power delivery. Overheating. Loose cable connections.	Ensure your system's power requirements do not exceed 1000W. Check for proper ventilation and clean any dust buildup. Verify all cable connections are secure.
Unusual noises from PSU.	Fan obstruction or defect. Internal component issue.	Ensure no cables are hitting the fan. If noise persists, discontinue use and contact Rosewill support.
Cables appear melted or discolored.	Poor connection or excessive load.	Immediately power off and unplug the system. Ensure all connectors, especially the 12V-2x6 (PCIe 5.0) connector, are fully and correctly seated. Do not reuse damaged cables. Contact Rosewill support for replacement cables or warranty service.

8. SPECIFICATIONS

Feature	Detail
Model Name	CMG1000G5
Brand	Rosewill
Output Wattage	1000 Watts
Form Factor	ATX
Cooling Method	Air (120mm FDB Fan)
Item Dimensions (L x W x H)	11.4 x 9 x 4.6 inches (289.56 x 228.6 x 116.84 mm)
Item Weight	6.3 Pounds (2.86 kg)
Power Supply Design	Full Modular
Efficiency Certification	80 PLUS Gold
Input Voltage	100-240 Volts AC

Feature	Detail
Input Frequency	50-60 Hz
Connectors	ATX, PCIe (including 12V-2x6 for PCIe 5.0)
ATX Standard	ATX 3.0 & 3.1 Compatible
Capacitors	100% Japanese Electrolytic Capacitors
Protections	OCP, OPP, OTP, OVP, SCP, UCP (Over Current, Over Power, Over Temperature, Over Voltage, Short Circuit, Under Current Protection)



Image: Side view of the Rosewill CMG5 1000W Power Supply, displaying the electrical specifications label including AC input, DC output voltages, and total output power.

9. WARRANTY AND SUPPORT

Warranty Information:

The Rosewill CMG5 1000W Power Supply comes with a **5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please refer to the official Rosewill website or contact their customer service.

Customer Support:

If you have any questions, require technical assistance, or need to initiate a warranty claim, please contact Rosewill customer support:

- **Website:** Visit the official Rosewill website for support resources, FAQs, and contact information.
- **Email/Phone:** Refer to the Rosewill website for the most current contact details.

When contacting support, please have your product model (CMG1000G5) and proof of purchase readily available.