MSI MAGA1000GLPCIE5

MSI MAG A1000GL PCIE5 1000W Power Supply User Manual

Model: MAGA1000GLPCIE5

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your MSI MAG A1000GL PCIE5 1000W Power Supply. This fully modular power supply is designed to deliver stable and efficient power to your PC components, featuring 80 PLUS Gold certification, ATX 3.1, and PCIe 5.1 readiness.



Image 1.1: MSI MAG A1000GL PCIE5 Power Supply and Packaging.

The MAG A1000GL PCIE5 is engineered for high performance and reliability, making it suitable for demanding gaming systems and workstations. Its compact design ensures compatibility with various PC cases.

2. Safety Information

Please read and understand all safety instructions before installing or operating this product. Failure to do so may result in personal injury or damage to the product and other components.

- **Electrical Hazard:** Do not open the power supply unit casing. High voltages are present inside, even when the unit is unplugged. There are no user-serviceable parts inside.
- **Grounding:** Ensure the power supply is properly grounded to prevent electrical shock.
- **Power Disconnection:** Always disconnect the AC power cord from the wall outlet before installing, removing, or performing any maintenance on the power supply or other PC components.
- **Ventilation:** Operate the power supply in a well-ventilated environment. Do not block the fan or any ventilation openings.
- **Moisture:** Do not expose the power supply to water or excessive humidity.

- **Temperature:** Avoid operating the power supply in extremely high temperatures. Refer to the specifications for the recommended operating temperature range.
- **Cable Management:** Ensure all cables are routed properly and are not pinched or stressed.

3. Package Contents

Verify that all items listed below are included in your product package. If any items are missing or damaged, contact your retailer or MSI support.

- MSI MAG A1000GL PCIE5 1000W Power Supply Unit
- Modular Cable Set (see Section 4.3 for details)
- AC Power Cord
- Mounting Screws
- User Manual (this document)



Image 3.1: Contents of the MSI MAG A1000GL PCIE5 package.

4. Setup and Installation

4.1. Pre-installation Checklist

- Ensure your PC case has adequate space for an ATX power supply (dimensions: 11.5 x 9.25 x 5 inches).
- Verify that your motherboard and other components are compatible with a 1000W power supply and the required connectors.
- Gather necessary tools: Phillips head screwdriver.
- Work on a clean, static-free surface. Consider using an anti-static wrist strap.

4.2. Physical Installation

1. **Prepare the Case:** Open your PC case and locate the power supply mounting area, typically at the bottom or top rear.
2. **Mount the PSU:** Gently slide the MSI MAG A1000GL PCIE5 into the designated slot. Ensure the fan is oriented correctly (usually facing downwards if there's a bottom vent, or upwards if not).
3. **Secure the PSU:** Align the screw holes on the power supply with those on the PC case. Use the provided mounting screws to secure the power supply firmly to the case.

4.3. Cable Connection

The MSI MAG A1000GL PCIE5 is a fully modular power supply, allowing you to connect only the cables you need, which improves airflow and cable management.



Image 4.1: Modular cable ports on the MSI MAG A1000GL PCIE5.

1. **Motherboard Power (MB 20+4 PIN):** Connect the large 20+4 pin cable to the corresponding port on your motherboard. Ensure both sections are securely latched.
2. **CPU Power (CPU 4+4 PIN):** Connect one or two 4+4 pin CPU cables to the CPU power ports on your motherboard. Modern motherboards often require two.
3. **PCIe 5.1 Power (16 PIN):** For compatible NVIDIA GeForce RTX 40 Series GPUs, use the native 16-pin (12V-2x6) cable. Connect it directly to your GPU and the PSU. This cable features a dual-color design for easy identification and proper seating.



Image 4.2: Dual-color 16-pin PCIe 5.1 cable for modern GPUs.

4. **PCI-E Power (6+2 PIN):** For other graphics cards or additional PCIe devices, connect the 6+2 pin PCI-E cables as needed.
5. **SATA Power:** Connect SATA power cables to your SSDs, HDDs, and other SATA-powered devices.
6. **Molex Power:** Connect Molex cables for older peripherals or case fans if required.
7. **FDD Power:** If you have a Floppy Disk Drive or a device requiring an FDD connector, use the appropriate cable.

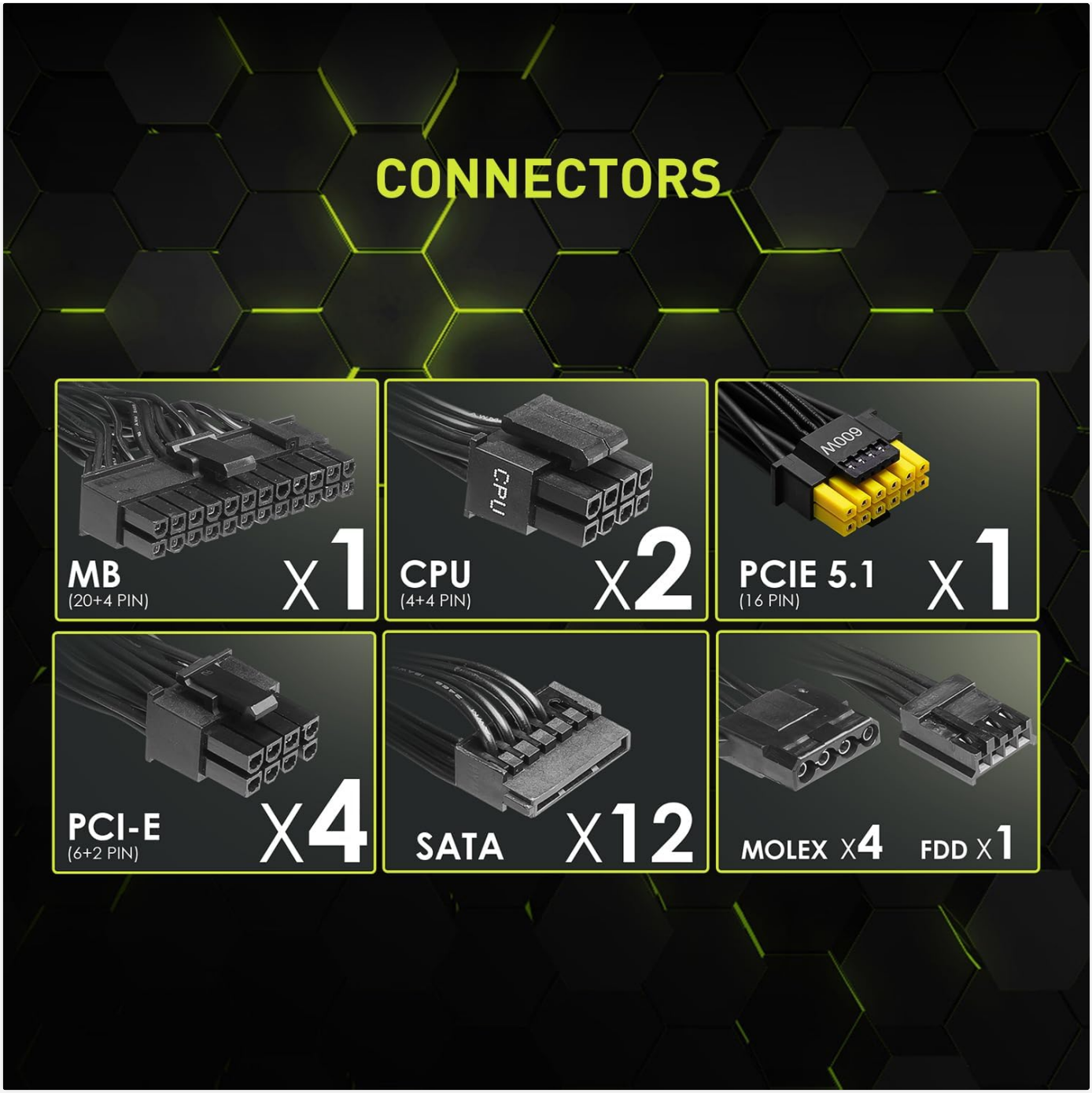


Image 4.3: Overview of included modular cables and quantities.

4.4. Final Connections

1. **AC Power Cord:** Once all internal connections are made, connect the AC power cord to the power supply's inlet and then to a grounded wall outlet.
2. **Power Switch:** Ensure the power switch on the back of the PSU is in the OFF (0) position before connecting to the wall outlet.

5. Operating Instructions

5.1. Initial Power-On

1. After completing all cable connections and securing the PSU, ensure the AC power cord is connected to a wall outlet.

2. Flip the power switch on the back of the power supply to the ON (I) position.
3. Press the power button on your PC case to start your system.

5.2. Power Efficiency

The MSI MAG A1000GL PCIE5 is **80 PLUS Gold Certified**, meaning it achieves high power efficiency (up to 90% at typical loads). This reduces wasted energy, lowers heat generation, and can result in lower electricity bills.



Image 5.1: 80 PLUS Gold Certification.

5.3. Cooling System

This power supply features a Fluid Dynamic Bearing (FDB) fan, which provides quiet operation and extended lifespan. The fan intelligently adjusts its speed based on the power supply's load and temperature to maintain optimal cooling while minimizing noise.

6. Maintenance

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

- **Dust 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 and vents. **Always disconnect the AC power before cleaning.**
- **Ventilation:** Ensure that the power supply's intake and exhaust vents are not obstructed by cables or other components within your PC case.
- **Environmental Conditions:** Operate the power supply within its specified temperature and humidity ranges. Avoid extreme conditions.
- **Cable Inspection:** Occasionally inspect all connected cables for any signs of wear, damage, or loose connections.

7. Troubleshooting

If you encounter issues with your MSI MAG A1000GL PCIE5 power supply, refer to the following common problems and solutions.

7.1. No Power to System

- **Check AC Power:** Ensure the AC power cord is securely connected to both the power supply and a working wall outlet.
- **PSU Switch:** Verify that the power switch on the back of the PSU is in the ON (I) position.
- **Internal Connections:** Double-check all modular cable connections, especially the 20+4 pin motherboard cable and 4+4 pin CPU cables, to ensure they are fully seated.
- **Short Circuit:** Disconnect all components except the motherboard, CPU, and one stick of RAM. If the system powers on, reconnect components one by one to identify a faulty component or short circuit.

7.2. System Instability or Random Shutdowns

- **Overload:** Ensure your system's power requirements do not exceed the 1000W capacity of the PSU.
- **Cable Connections:** Re-verify all power cable connections, particularly to the graphics card(s) and motherboard. Loose connections can cause instability.
- **Overheating:** Ensure adequate airflow within your PC case and that the PSU fan is not obstructed.

7.3. Excessive Fan Noise

- **Dust Buildup:** Clean the fan and vents as described in the Maintenance section.
- **Obstruction:** Check for any cables or foreign objects obstructing the fan blades.
- **Normal Operation:** The fan speed will increase under higher loads. If the noise is constant and unusually loud even at low loads, contact support.

If troubleshooting steps do not resolve your issue, please contact MSI Technical Support.

8. Specifications

Feature	Description

Model Name	MAG A1000GL PCIE5
Brand	MSI
Output Wattage	1000W
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
Power Supply Design	Fully Modular
ATX Standard	ATX 3.1 Ready
PCIe Standard	PCIe 5.1 Ready (Native 12V-2x6 Cable)
Cooling Method	Air (Fluid Dynamic Bearing Fan)
Dimensions (LxWxH)	11.5 x 9.25 x 5 inches
Weight	7.25 pounds
Color	Black
Compatible Devices	NVIDIA GeForce RTX 30 Series GPUs, AMD GPUs, and newer
Protections	OVP, OCP, OPP, OTP, SCP, UVP (Over Voltage, Over Current, Over Power, Over Temperature, Short Circuit, Under Voltage Protection)

9. Warranty and Support

9.1. Warranty Information

The MSI MAG A1000GL PCIE5 Power Supply comes with a**10-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, refer to the official MSI website or contact MSI support.

9.2. Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official MSI support website or contact their customer service department. You can find contact information and support resources at www.msi.com/support.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question