

MSI MAGA1250GLPCIE5

MSI MAG A1250GL PCIE5 1250W Power Supply Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your MSI MAG A1250GL PCIE5 1250W Power Supply. Designed for high-performance gaming and demanding computing tasks, this fully modular power supply offers exceptional efficiency and reliability.

- **80 PLUS Gold Certified:** Ensures high energy efficiency, reducing heat and operating costs.
- **10-Year Limited Warranty:** Guarantees long-term reliable operation and peace of mind.
- **Fully Modular Design:** Allows for clean cable management and improved airflow within your PC case.
- **ATX 3.1 & PCIe 5.1 Ready:** Compatible with the latest hardware standards, including next-generation graphics cards with native 12V-2x6 power connectors.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the power supply. Failure to do so may result in personal injury or damage to your equipment.

- **Electrical Hazard:** The power supply contains high voltage components. Do not open the power supply unit. Refer all servicing to qualified service personnel.
- **Proper Grounding:** Ensure the power supply is properly grounded to prevent electrical shock.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the power supply.
- **Moisture:** Keep the power supply away from water, humidity, or any liquids.
- **Installation:** Professional installation is recommended. Always disconnect the AC power cord from the wall outlet before installing or removing the power supply or any other components.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any items are missing or damaged, please contact your retailer.



MSI MAG A1250GL PCIE5 Power Supply Unit

The core component of your system, providing 1250W of stable power.



Modular Cables & Accessories

A full set of modular cables for various components, including a native 12V-2x6 cable, CPU, PCIe, SATA, and Molex connectors. Also includes mounting screws and a cable pouch.

Included Cables and Connectors:

LEVEL UP YOUR GAME



Detailed Connector Overview

This image illustrates the various modular ports on the power supply, including ATX 24P, CPU & PCI-e, 12V-2x6, and SATA & MOLEX connections.

- 1x MB (20+4 PIN) Cable
- 2x CPU (4+4 PIN) Cables
- 1x PCIE 5.1 (16 PIN) Cable (Native Dual-Color 12V-2x6)
- 4x PCI-E (6+2 PIN) Cables
- 12x SATA Connectors (across multiple cables)
- 4x MOLEX Connectors (across multiple cables)
- 1x FDD Connector
- AC Power Cord
- Mounting Screws
- Cable Pouch

Unboxing and Cable Overview (Video)

This video provides an unboxing experience for a similar MSI MAG PSU (A1000GL), showcasing the included cables, ports, and

connections, which are largely identical to the A1250GL model.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your MSI MAG A1250GL PCIE5 Power Supply. Ensure your system is powered off and unplugged before beginning.

1. **Prepare Your Case:** Open your PC case and locate the power supply mounting area, typically at the bottom or top rear.
2. **Mount the Power Supply:** Carefully slide the power supply into its designated bay. Secure it with the provided mounting screws.
3. **Connect Motherboard Power:** Connect the 20+4 pin ATX cable to your motherboard's main power connector.
4. **Connect CPU Power:** Connect the 4+4 pin CPU power cable(s) to your motherboard's CPU power connector(s).
5. **Connect GPU Power:** For modern graphics cards, use the native 12V-2x6 (PCIe 5.1) cable. Ensure it is fully seated. For older or additional GPUs, use the 6+2 pin PCIe cables.
6. **Connect Peripherals:** Connect SATA power cables to your storage drives (HDDs, SSDs) and Molex cables to any other peripherals requiring them.
7. **Cable Management:** Utilize the fully modular design to connect only the necessary cables. Route cables neatly behind the motherboard tray or in designated channels to improve airflow and aesthetics.
8. **Close Case & Power On:** Once all connections are secure, close your PC case and connect the AC power cord. Power on your system.

Power Supply Installation Demonstration (Video)

This video demonstrates the installation process of a 1000W power supply, offering visual guidance for connecting various components within a PC build. The principles apply to the 1250W model.

5. OPERATING INSTRUCTIONS

The MSI MAG A1250GL PCIE5 Power Supply is designed for straightforward operation.

- **Power On/Off:** Use the main power switch located on the rear of the power supply to turn the unit on or off.
- **Fan Operation:** The power supply features a Fluid Dynamic Bearing fan designed for quiet operation. The fan speed will automatically adjust based on the power supply's load and temperature, spinning up when more cooling is required and remaining almost silent during low loads.

FLUID DYNAMIC BEARING



Fluid Dynamic Bearing Fan

The advanced fan design ensures quiet operation and extended lifespan.

6. MAINTENANCE

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

- **Keep Vents Clear:** Regularly check that the power supply's intake and exhaust vents are free from dust and obstructions.
- **Dust Removal:** Periodically clean the power supply and surrounding areas inside your PC case using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Integrity:** Inspect cables for any signs of wear, fraying, or damage. Replace damaged cables immediately.

7. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common troubleshooting steps:

- **No Power:**

- Ensure the AC power cord is securely connected to both the power supply and the wall outlet.
- Check that the power supply's main switch is in the 'ON' position.
- Verify all modular cables are firmly connected to both the power supply and the respective components (motherboard, CPU, GPU).
- Test the wall outlet with another device to confirm it has power.

- **System Instability/Crashes:**

- Ensure your system's power requirements do not exceed the 1250W capacity of the PSU.
- Check for proper seating of all components (RAM, GPU, etc.).
- Monitor system temperatures to ensure components are not overheating.

- **Unusual Fan Noise (e.g., rattling):**

- While the Fluid Dynamic Bearing fan is designed to be quiet, unusual noises like rattling could indicate an issue.
- Ensure no cables or foreign objects are obstructing the fan blades.
- If the noise persists and is not related to normal fan speed adjustments under load, consider contacting MSI support.

If these steps do not resolve your issue, please refer to the Warranty and Support section for further assistance.

8. SPECIFICATIONS

Feature	Specification
Brand	MSI
Model Number	MAGA1250GLPCIE5
Output Wattage	1250 Watts
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 Dual-Color 12V-2x6 Cable)
Cooling Method	Air (Fluid Dynamic Bearing Fan)
Item Weight	7.25 pounds
Product Dimensions (LxWxH)	11.5 x 9.25 x 5 inches

80 PLUS GOLD CERTIFIED



80 PLUS Gold Certified

High efficiency rating ensures less heat and lower operating costs.

ATX 3.1 COMPATIBLE



ATX 3.1

ATX 2.0

1.3x

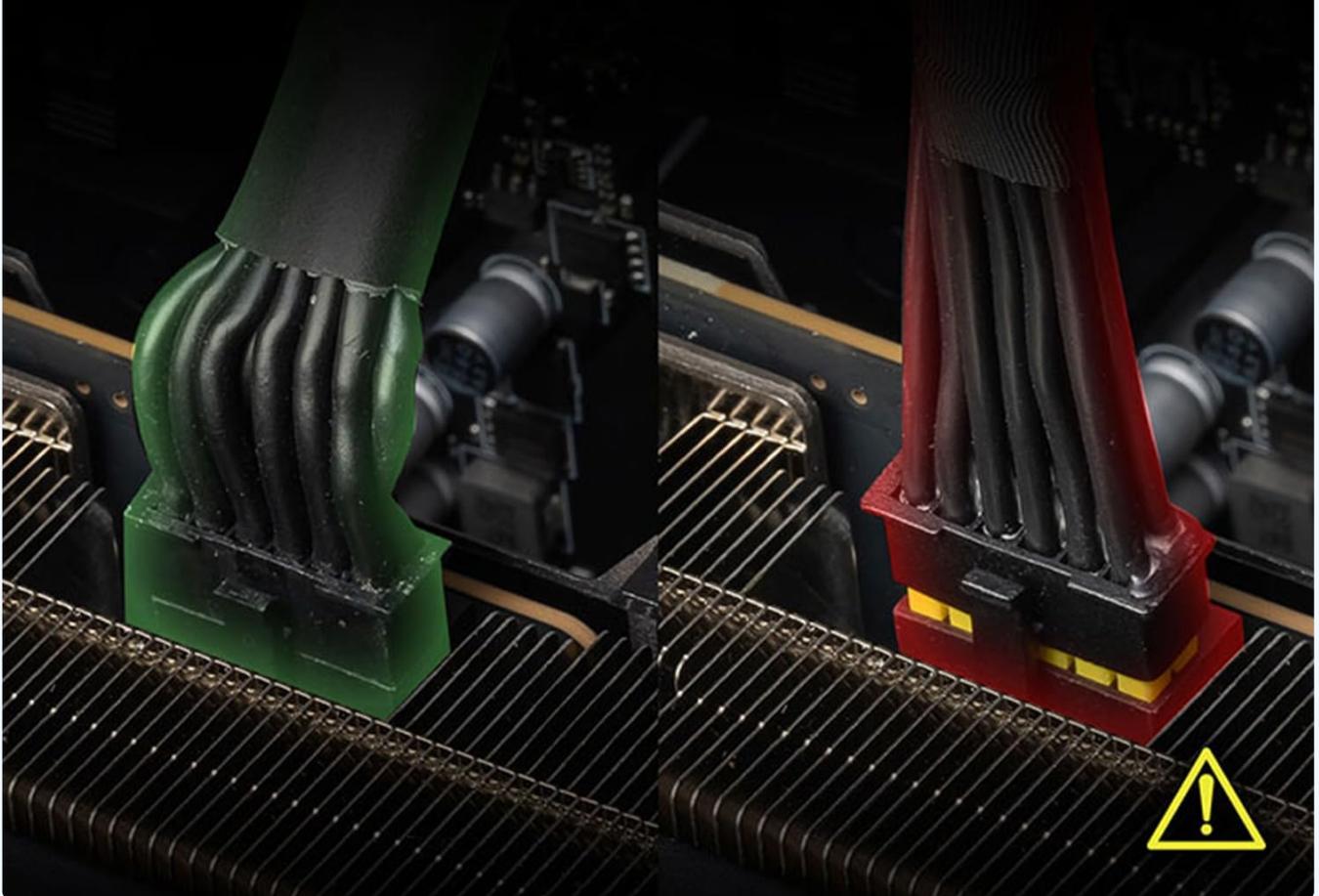
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Power Excursion

ATX 3.1 Compatible

Designed to meet the latest ATX 3.1 standard for enhanced power delivery and stability.

DUAL-COLOR 16-PIN CABLE



Native Dual-Color 16-Pin Cable

Features a native 12V-2x6 cable with dual-color connectors for easy and secure installation with PCIe 5.1 graphics cards.

9. WARRANTY AND SUPPORT

Your MSI MAG A1250GL PCIE5 Power Supply comes with a **10-year limited warranty**, ensuring long-term reliability and support.

- **Warranty Coverage:** The warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
- **Technical Support:** For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the official MSI website or contact MSI customer support.

