



Manuals.plus /

- › MSI /
- › MSI MAG A850GL PCIE5 850W Power Supply Unit Instruction Manual

## MSI MAG A850GL PCIE5

# MSI MAG A850GL PCIE5 850W Power Supply Unit Instruction Manual

Model: MAG A850GL PCIE5

## 1. INTRODUCTION

---

The MSI MAG A850GL PCIE5 is an 850W power supply unit designed for high-performance personal computers. It features 80 PLUS Gold certification for high power conversion efficiency and is fully compliant with the ATX 3.0 standard and PCIe 5.1, making it ideal for the latest graphics cards, including the NVIDIA GeForce RTX 40 series. This power supply unit offers a fully modular design with flat cables for easy installation and cable management, along with a Fluid Dynamic Bearing (FDB) fan for quiet and durable operation.



Image 1.1: The MSI MAG A850GL PCIE5 Power Supply Unit and its retail packaging.



80 PLUS GOLD 認証



ATX3.0 / PCIe5.0



12VHPWR で最大 600W の電源を供給可能  
※GeForce RTX™ 40 シリーズ対応モデル

コンパクトサイズ



140mm のコンパクトサイズで  
簡単に取り付け可能

Image 1.2: Key features of the MSI MAG A850GL PCIE5, highlighting its 7-year warranty, 80 PLUS Gold certification, ATX 3.0 / PCIe 5.0 compatibility, and compact form factor.

## 2. SETUP AND INSTALLATION

Before installing the power supply unit, ensure your system is powered off and disconnected from the main power outlet. Handle all components with care to prevent electrostatic discharge.

### 2.1. Component Checklist

Verify that all components are present in the package:

- MSI MAG A850GL PCIE5 Power Supply Unit
- Modular Cable Set (including 12VHPWR cable)
- AC Power Cord
- Mounting Screws
- User Manual

### 2.2. Installation Steps

1. **Prepare Your PC Case:** Open your PC case and locate the power supply mounting area.
2. **Mount the PSU:** Gently slide the MSI MAG A850GL PCIE5 into the designated slot in your PC case. Secure it with the provided mounting screws.
3. **Connect Motherboard Power:** Connect the 24-pin ATX power cable to your motherboard.
4. **Connect CPU Power:** Connect the EPS 4+4-pin CPU power cables to your motherboard.
5. **Connect Graphics Card Power:** For modern graphics cards, use the native 16-pin (12VHPWR) PCIe 5.0 cable. Ensure the yellow-tipped connector is fully inserted to prevent improper connection. For other graphics cards, use the PCIe 6+2-pin cables.
6. **Connect Peripherals:** Use the SATA power cables for SSDs/HDDs and peripheral cables (Molex) for other components as needed. The fully modular design allows you to connect only the necessary cables, improving airflow and cable management.
7. **Cable Management:** Utilize the flat cables to route and organize them neatly within your case for optimal airflow and aesthetics.
8. **Connect AC Power:** Once all internal connections are secure, connect the AC power cord to the PSU and then to a wall outlet.

## 最新のATX3.0規格対応



ATX 3.0と PCIe 5.0 に準拠する出力ポートを搭載。  
最大 2 倍のトータルパワーエクスカージョンと  
3 倍の GPU パワーエクスカージョンに対応します。

Image 2.1: The modular connector panel of the PSU, highlighting its ATX 3.0 and PCIe 5.0 compliant output ports.



Image 2.2: The 12VHPWR cable connector features a yellow tip to ensure full and proper insertion, preventing connection issues.



Image 2.3: The flat, fully modular cables simplify installation and enhance internal PC airflow.



Image 2.4: An illustration of the various connector types and their quantities provided with the power supply unit.

## 3. OPERATING INSTRUCTIONS

---

The MSI MAG A850GL PCIE5 is designed for reliable and efficient operation. Once installed, ensure all connections are secure before powering on your system.

### 3.1. Power On/Off

Use the power switch located on the back of the PSU to turn the unit on or off. For normal operation, leave the switch in the 'On' position. Your computer's power button will then control system power.

### 3.2. Efficiency and Stability

This power supply unit features 80 PLUS Gold certification, indicating high power efficiency. This reduces wasted energy and heat generation, contributing to a cooler and more stable system. The single-rail design ensures consistent and high-power delivery to critical components like the CPU and GPU, even under heavy loads.

# 80 Plus Gold 認証



厳選された部品を使用することで、低いエネルギー消費と高い電源変換効率を実現しました。



Image 3.1: The 80 PLUS Gold certified power supply unit, demonstrating its integration into a PC system for efficient power delivery.

### 3.3. Quiet Operation

The integrated fan utilizes a Fluid Dynamic Bearing (FDB) for enhanced quietness and durability. This design minimizes noise during operation, providing a more pleasant computing experience.

# しっかりした安定性と静音性



ファンベアリング部分に FDB を採用し、静音性と高耐久性を実現。



シングルレーン設計による高出力な電源供給により、高性能なグラフィックスカードや CPU に必要な電力を適切に供給することができます。

Image 3.2: An illustration detailing the Fluid Dynamic Bearing (FDB) fan for quiet operation and the single-rail design for stable power output.

## 4. MAINTENANCE

---

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

- **Keep it Clean:** Periodically clean the exterior of the PSU and the fan grille to prevent dust buildup. Dust can impede airflow and reduce cooling efficiency. Use compressed air or a soft brush for cleaning.
- **Ensure Proper Airflow:** Make sure there is adequate space around the PSU for proper ventilation. Avoid blocking the intake or exhaust vents.
- **Check Connections:** Occasionally, verify that all modular cables are securely connected to both the PSU and your PC components.
- **Avoid Overloading:** Do not exceed the rated wattage of the power supply. Ensure your system's total power consumption is within the 850W limit.

## 5. TROUBLESHOOTING

---

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

- **No Power:**

- Check if the AC power cord is securely plugged into both the PSU and the wall outlet.
- Ensure the PSU's power switch on the back is in the 'On' position.
- Verify that the 24-pin ATX and EPS CPU power cables are correctly connected to the motherboard.
- Test the wall outlet with another device to confirm it has power.

- **System Instability/Crashes:**

- Ensure all modular cables, especially for the graphics card, are fully seated. Pay close attention to the 12VHPWR connector's yellow tip for proper insertion.
- Check if your system's power requirements exceed the PSU's 850W capacity.
- Monitor system temperatures to ensure components are not overheating.

- **Unusual Noises:**

- If you hear unusual fan noises, ensure the PSU fan is not obstructed by cables or dust.
- While the FDB fan is designed for quietness, some noise under heavy load is normal. If the noise is excessive or grinding, contact support.

- **Burning Smell:**

- Immediately power off your system and disconnect it from the wall outlet. Do not attempt to use the PSU again. Contact MSI support.

## 6. SPECIFICATIONS

---

Detailed technical specifications for the MSI MAG A850GL PCIE5 Power Supply Unit:



Image 6.1: The 850W output capacity of the MSI MAG A850GL PCIE5, providing 70.5A on the +12V rail.

Feature	Specification
Brand	MSI
Model Number	MAG A850GL PCIE5
Wattage	850 W
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
ATX Standard	ATX 3.0 (PCIe 5.1 Native)
Modular Type	Full Modular
Fan Size	120mm
Fan Bearing	Fluid Dynamic Bearing (FDB)
PFC	Active PFC
Input Voltage	100-240V
Frequency	47-63Hz
Protection Circuits	OCP, OVP, OPP, OTP, SCP, UVP
Connectors	ATX 24pin x1, EPS 4+4pin x2, PCI-E 5.0 16pin x1, PCI-E 6+2pin x4, SATA x8, Peripheral x4, FDD x1
Dimensions (DxWxH)	140 x 150 x 86 mm
Product Weight	2.84 g



Image 6.2: Physical dimensions of the power supply unit: 140mm (D) x 150mm (W) x 86mm (H).

## 7. WARRANTY AND SUPPORT

### 7.1. Warranty Information

The MSI MAG A850GL PCIE5 Power Supply Unit comes with a **7-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of

purchase for warranty claims.

## **7.2. Technical Support**

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the official MSI support website or contact your local MSI authorized dealer. You can find detailed support information and contact options on the MSI website: [www.msi.com/support](http://www.msi.com/support)