

ASUS 90YE00W4-B0NA00

ASUS ROG Strix 1000W Platinum White PSU User Manual

Model: ROG-STRIX-1000P-GAMING-WHITE (90YE00W4-B0NA00)

PRODUCT OVERVIEW

The ASUS ROG Strix 1000W Platinum White Edition Power Supply Unit (PSU) is engineered to provide top-tier performance and unwavering stability for high-end gaming systems. It incorporates advanced technologies such as next-generation GaN MOSFETs for superior power efficiency and a patented intelligent voltage stabilizer with "GPU-FIRST" voltage sensing to ensure consistent power delivery to your graphics card. This PSU is fully compliant with ATX 3.1 standards and includes a native 12V-2x6 connector, making it ready for the latest hardware.



Figure 1: ASUS ROG Strix 1000W Platinum White PSU and its retail packaging, showcasing the product's design and branding.

KEY FEATURES

- **GaN MOSFET Technology:** Delivers superior power efficiency, increasing efficiency by up to 30%, and contributes to a more organized internal layout for cooler operation.
- **"GPU-FIRST" Intelligent Voltage Stabilizer:** Enhances voltage delivery to your graphics card by up to 45%, ensuring smoother gameplay and unwavering performance under heavy loads.
- **Large ROG Heatsinks:** Strategically placed heatsinks cover critical components, resulting in lower operating temperatures and reduced noise compared to standard designs.
- **Dual Ball Fan Bearings:** The cooling fan utilizes dual ball bearings, providing up to twice the lifespan of traditional sleeve bearing designs.
- **0dB Technology:** Enables the fan to stop spinning entirely under light loads, allowing for silent operation during less demanding tasks.

- **ATX 3.1 & PCIe 5.1 Ready:** Fully compliant with ATX 3.1 guidelines and includes a native 16-pin PCIe power cable for compatibility with next-generation PCIe Gen 5.1 graphics cards.
- **80 PLUS Platinum Certification:** Built with low-ESR Japanese capacitors and other premium components to achieve high power efficiency, reducing energy waste and heat generation.

GaN MOSFET
Increased up to 30% power efficiency

ROG Heatsinks

ATX 3.1 Compatible

PCIe Gen 5.1 Compatible

"GPU-FIRST" Intelligent Voltage Stabilizer
Enhances voltage stability by up to 45%

Etched Modular Cables

80 PLUS PLATINUM

10 YEAR WARRANTY

JOIN THE REPUBLIC

Figure 2: Visual summary of the ASUS ROG Strix PSU's advanced features, highlighting its technological advantages.

SETUP AND INSTALLATION

This section provides general guidelines for installing your ASUS ROG Strix 1000W Platinum White PSU. For detailed instructions specific to your PC case and components, please refer to their respective manuals.

1. Safety Precautions

- Always disconnect the power cord from the wall outlet before installing or removing any components.

- Ensure proper grounding to prevent electrostatic discharge (ESD) damage to components.
- Do not open the PSU casing. High voltages are present inside, even when unplugged.
- Install the PSU in a well-ventilated area.

2. Physical Installation

1. **Prepare Your Case:** Identify the PSU mounting area in your PC case, typically at the bottom or top rear.
2. **Mount the PSU:** Slide the PSU into the designated bay. Align the screw holes on the PSU with those on the case. Secure the PSU using the provided screws.
3. **Connect Motherboard Power:** Connect the 24-pin ATX power cable from the PSU to the corresponding port on your motherboard. Ensure it clicks into place.
4. **Connect CPU Power:** Connect the 4+4 pin or 8-pin EPS/CPU power cable(s) to the CPU power connector(s) on your motherboard.
5. **Connect GPU Power:** For graphics cards requiring PCIe power, connect the appropriate 6+2 pin or the native 12V-2x6 (16-pin) PCIe 5.1 power cable from the PSU to your graphics card. Ensure all pins are fully seated.



Figure 3: The native 16-pin PCIe 5.1 power cable, ensuring compatibility with next-generation graphics cards.

6. **Connect Peripherals:** Connect SATA power cables to your storage drives (SSDs, HDDs) and Molex cables to

any other peripherals requiring them.

7. **Cable Management:** Utilize the modular design of the PSU to connect only necessary cables. Route cables neatly to improve airflow and aesthetics.

OPERATING THE PSU

The ASUS ROG Strix 1000W Platinum White PSU operates automatically once installed and connected. It is designed for optimal performance and stability.

Power On/Off

- **Initial Power On:** After all components are connected, plug the AC power cord into the PSU and then into a wall outlet. Flip the power switch on the back of the PSU to the "ON" position.
- **System Power On:** Press the power button on your PC case to start the system.
- **System Shutdown:** Always shut down your operating system normally before turning off the PSU switch or unplugging the power cord.

Intelligent Voltage Stabilization

The "GPU-FIRST" intelligent voltage stabilizer actively monitors and adjusts voltage delivery to your graphics card, ensuring stable power even during sudden load changes. This patented technology minimizes voltage ripple and sag, contributing to a smoother and more reliable gaming experience.

"GPU-FIRST" Intelligent Voltage Stabilizer

"GPU-FIRST" intelligent voltage stabilizer enhances voltage delivery by up to 45% to your graphics card for smoother gameplay and unwavering performance

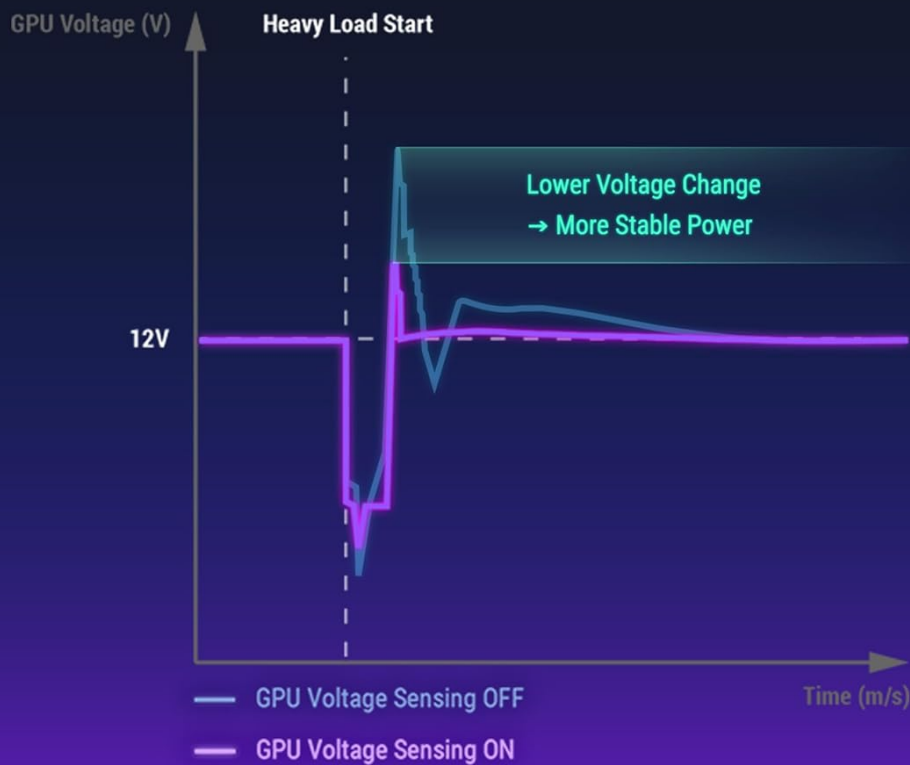


Figure 4: Comparison of GPU voltage stability with and without the "GPU-FIRST" intelligent voltage stabilizer, showing significantly reduced voltage change with the feature enabled.

0dB Fan Technology

The PSU's fan will remain off when the power consumption is below a certain threshold, providing silent operation. As the load increases, the fan will automatically spin up to maintain optimal temperatures. This intelligent cooling system ensures quiet performance during light tasks and efficient cooling under heavy loads.

MAINTENANCE AND CARE

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

- **Dust Removal:** Periodically clean dust from the PSU's fan intake and exhaust vents using compressed air. Ensure the system is powered off and unplugged before cleaning. Do not open the PSU casing.

- **Environmental Conditions:** Operate the PSU within recommended temperature and humidity ranges. Avoid extreme heat, cold, or moisture.
- **Ventilation:** Ensure adequate airflow around the PSU within your PC case. Do not obstruct the fan or vents.
- **Cable Integrity:** Periodically check all power cable connections to ensure they are secure and free from damage.

TROUBLESHOOTING

If you encounter issues with your PSU, refer to the following common troubleshooting steps.

Problem	Possible Cause	Solution
System does not power on.	PSU power switch is off. Power cord is loose or disconnected. Insufficient power from wall outlet. Loose internal power connections.	Ensure PSU switch is in "ON" position. Check power cord connection to PSU and wall outlet. Try a different wall outlet. Verify all internal power cables (24-pin, CPU, GPU, SATA) are securely connected.
System powers on but shuts down immediately.	Overload protection triggered. Overheating. Faulty component.	Ensure total system power draw does not exceed PSU capacity. Check for proper case ventilation and clear any obstructions. Disconnect non-essential components to isolate the issue.
Fan is not spinning.	0dB technology is active (low load). Fan obstruction or failure.	This is normal under low system loads. The fan will spin up when needed. If fan never spins under heavy load, check for obstructions. If still no spin, contact support.
Unusual noises from PSU.	Coil whine (normal for some PSUs). Fan bearing issue.	Minor coil whine is generally harmless. If noise is loud or grinding, contact ASUS support.

TECHNICAL SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Brand	ASUS
Series	ROG-STRIX-1000P-GAMING-WHITE
Model Number	90YE00W4-B0NA00
Output Wattage	1000 Watts
80 PLUS Certification	Platinum
Form Factor	ATX
ATX Standard	ATX 3.1 Compliant
PCIe Connector	Native 12V-2x6 (16-pin) for PCIe 5.1 GPUs
Dimensions (LxWxH)	6.3 x 5.91 x 3.39 inches (160 x 150 x 86 mm)
Item Weight	7.79 pounds (3.54 Kilograms)
Cooling Method	Air (with 0dB Technology)
Fan Bearings	Dual Ball Bearings
Color	White
Compatible Devices	Personal Computer



80 PLUS Platinum Certification

Built with low-ESR Japanese capacitors and other premium components to achieve 80 PLUS Platinum Certification

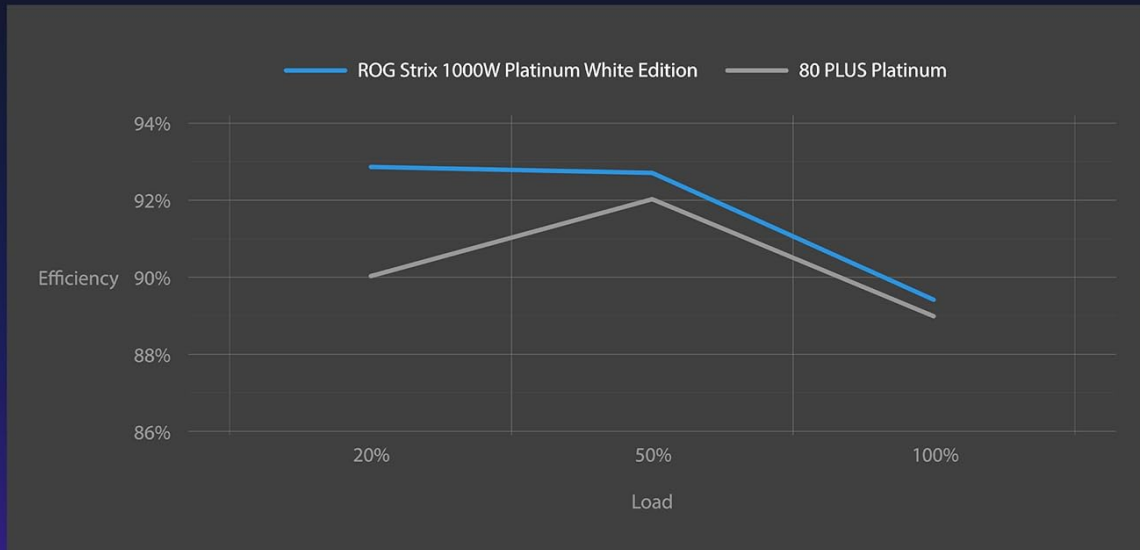


Figure 5: Efficiency performance of the ASUS ROG Strix 1000W Platinum PSU, demonstrating its compliance with 80 PLUS Platinum certification standards.

WARRANTY INFORMATION

The ASUS ROG Strix 1000W Platinum White PSU comes with a comprehensive warranty to ensure peace of mind.

- **Warranty Period:** This product is typically backed by a 10-year manufacturer's warranty. Please refer to the official ASUS website or your purchase documentation for the exact terms and conditions applicable to your region.
- **Coverage:** The warranty generally covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper installation.





CUSTOMER SUPPORT

For further assistance, technical support, or warranty claims, please contact ASUS customer service or visit their official support website.

- **ASUS Official Website:** www.asus.com/support/
- **Product Registration:** Register your product on the ASUS website to receive updates and support.
- **Online Resources:** Check the ASUS support page for FAQs, driver downloads, and additional documentation.

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Related Documents

	<p>ASUS ROG Strix 1200W Platinum Power Supply Unit - Features and Specifications</p> <p>Explore the features and specifications of the ASUS ROG Strix 1200W Platinum power supply unit, including GaN MOSFET, Intelligent Voltage Stabilizer, ROG Heatsinks, ATX 3.1 compatibility, and 10-year warranty.</p>
	<p>ASUS ROG Strix Aura 1000W Power Supply Unit Quick Start Guide</p> <p>This document provides a quick start guide for the ASUS ROG Strix Aura 1000W Power Supply Unit, covering product overview, installation instructions, and safety information in multiple languages.</p>
	<p>ASUS ROG STRIX Power Supply Unit Quick Start Guide</p> <p>This document provides a quick start guide for the ASUS ROG STRIX Power Supply Unit, covering installation, safety precautions, and product features. It includes multilingual quick start information and compliance details.</p>
	<p>ASUS ROG Thor Power Supply Unit Quick Start Guide and Specifications</p> <p>This document provides a quick start guide, package contents, specifications, cable descriptions, and safety information for the ASUS ROG Thor Power Supply Unit, available in 850W and 1200W models.</p>

