

Seasonic Focus GX-1000

Seasonic Focus GX 1000W Power Supply ATX 3.1 PCIe 5.1 (12V-2x6) Instruction Manual

Brand: Seasonic | Model: Focus GX-1000

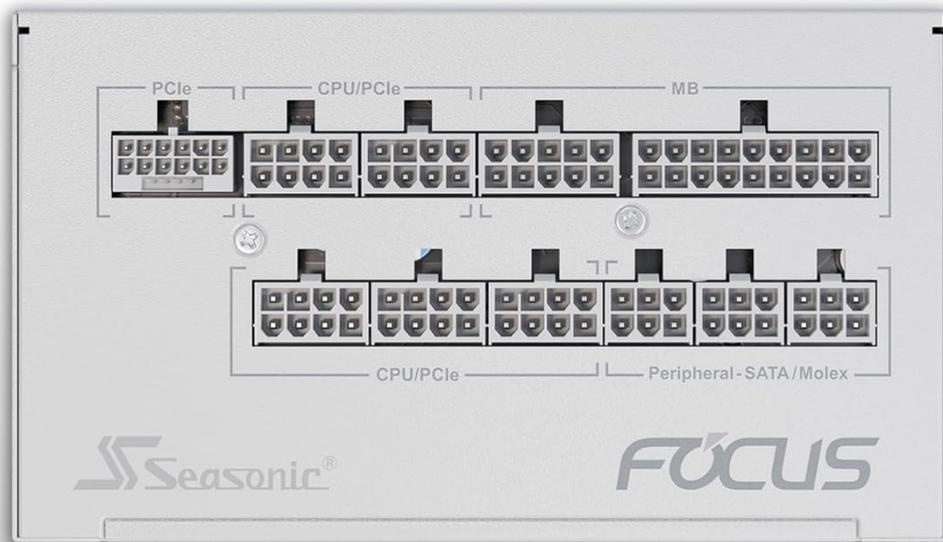
1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Seasonic Focus GX 1000W Power Supply. Designed for high-performance computing, this fully modular power supply is ATX 3.1 and PCIe 5.1 ready, featuring a native 12V-2x6 connector for next-generation GPUs. It boasts 80 PLUS and Cybenetics Gold certification, ensuring high efficiency and reliable power delivery.

2. PRODUCT FEATURES

- **ATX 3.1 / PCIe 5.1 Ready:** Equipped with a native 12V-2x6 connector, this power supply is designed to meet the demands of the latest graphics cards, including NVIDIA RTX 5090 and AMD RX 9000 series.
- **80 PLUS and Cybenetics Gold Certified:** Guarantees high power efficiency, reducing energy waste and operating costs.
- **OptiSink Design:** An advanced thermal design that enhances heat dissipation and improves overall cooling performance.
- **Hybrid Fan Control:** Features an intelligent thermal control switch with three operational stages (Fanless, Silent, and Cooling Mode) for optimal balance between silence and cooling.
- **135 mm FDB Fan:** A Fluid Dynamic Bearing fan ensures smooth rotation, lower noise, and extended lifespan.
- **Fully Modular Cabling:** Allows for clean cable management by using only the necessary cables.
- **Premium Components:** Utilizes top-grade Japanese 105°C aluminum electrolytic capacitors for enhanced durability and stable performance under extreme conditions.
- **PSU Tester Included:** For instant power status checks and convenient troubleshooting.

2.1. Visual Overview



ATX 3.1 PCIE 5.1 COMPLIANT

12V-2x6 Cable Included



Image: The Seasonic Focus GX 1000W Power Supply showing its modular cable connections and the included 12V-2x6 cable, highlighting its ATX 3.1 and PCIe 5.1 compliance.

FOCUS GX 1000 (ATX 3.1)

Fully Modular Cable

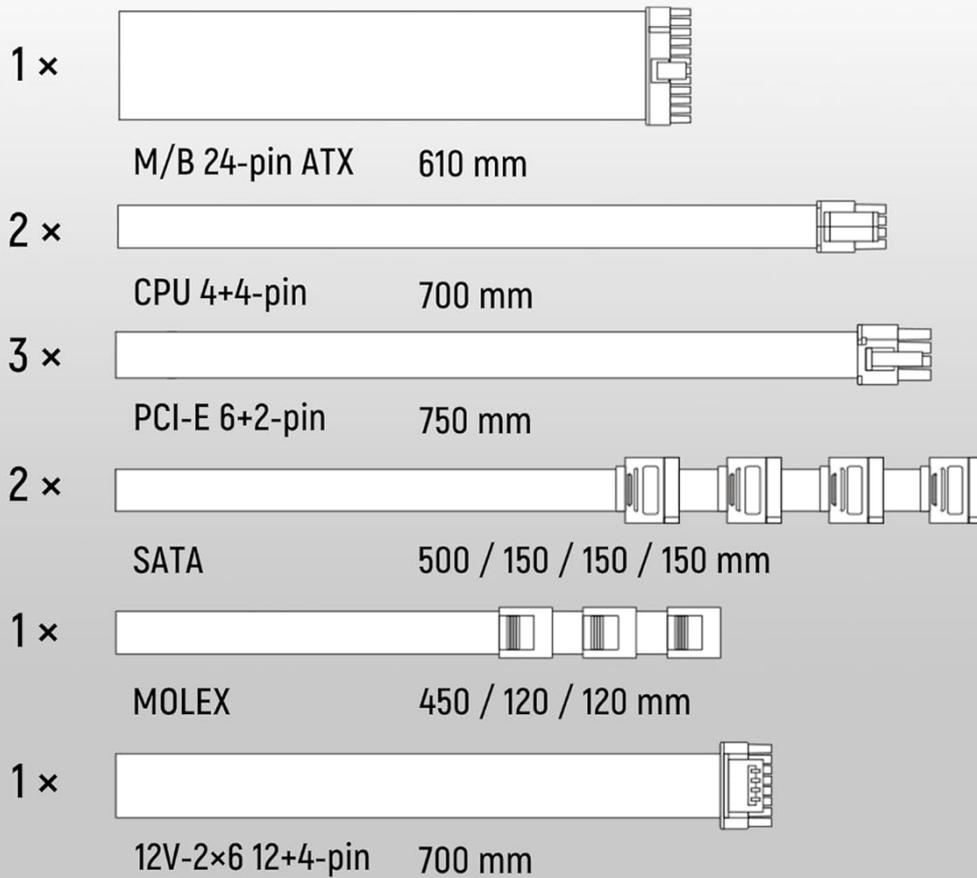


Image: A diagram illustrating the types and lengths of fully modular cables included with the Focus GX 1000, such as M/B 24-pin ATX, CPU 4+4-pin, PCI-E 6+2-pin, SATA, MOLEX, and 12V-2x6 12+4-pin.

PREMIUM COMPONENTS

Japanese Capacitors

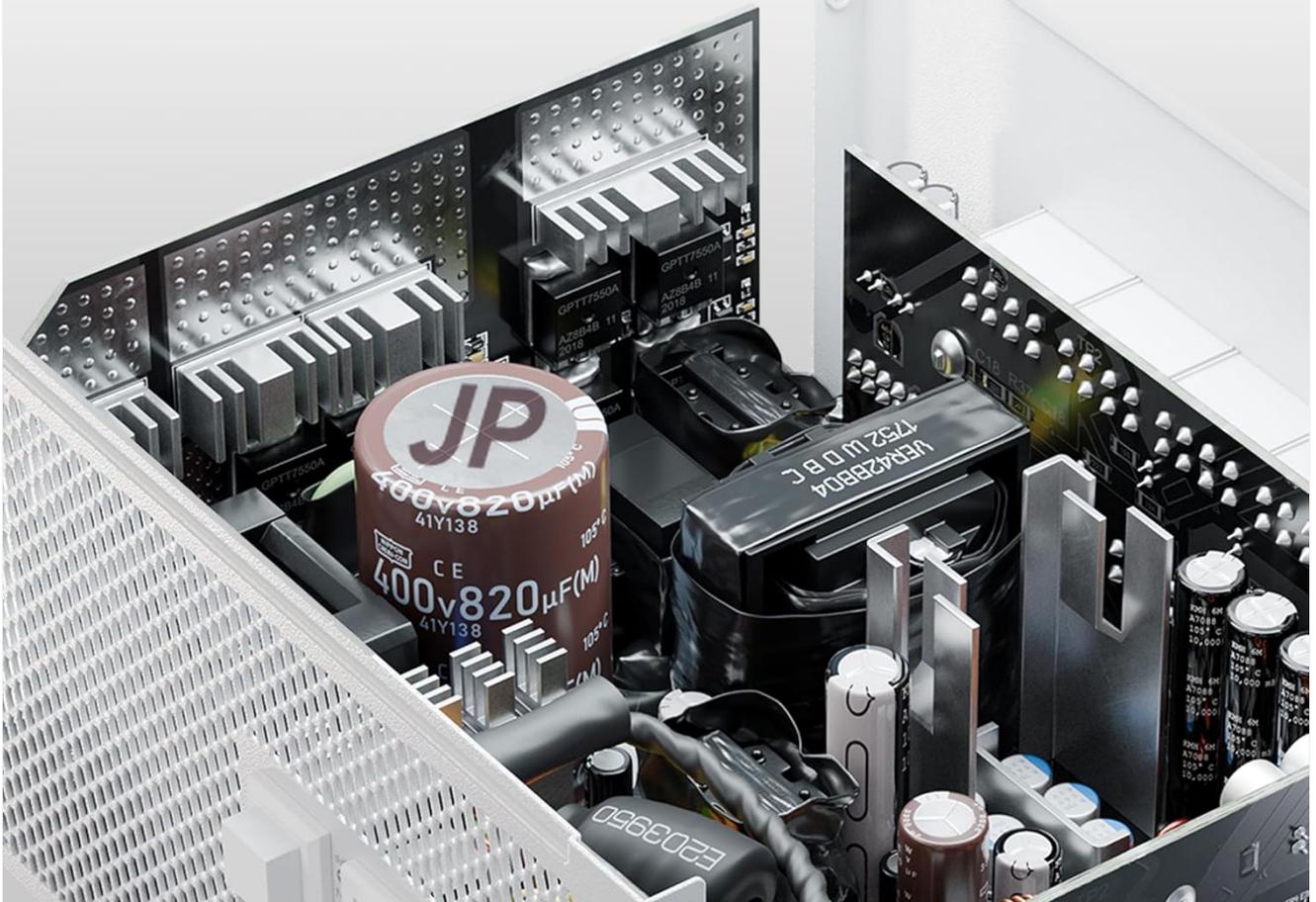


Image: An internal view of the power supply, emphasizing the premium Japanese capacitors used for reliability and performance.

PREMIUM-QUALITY MATERIALS

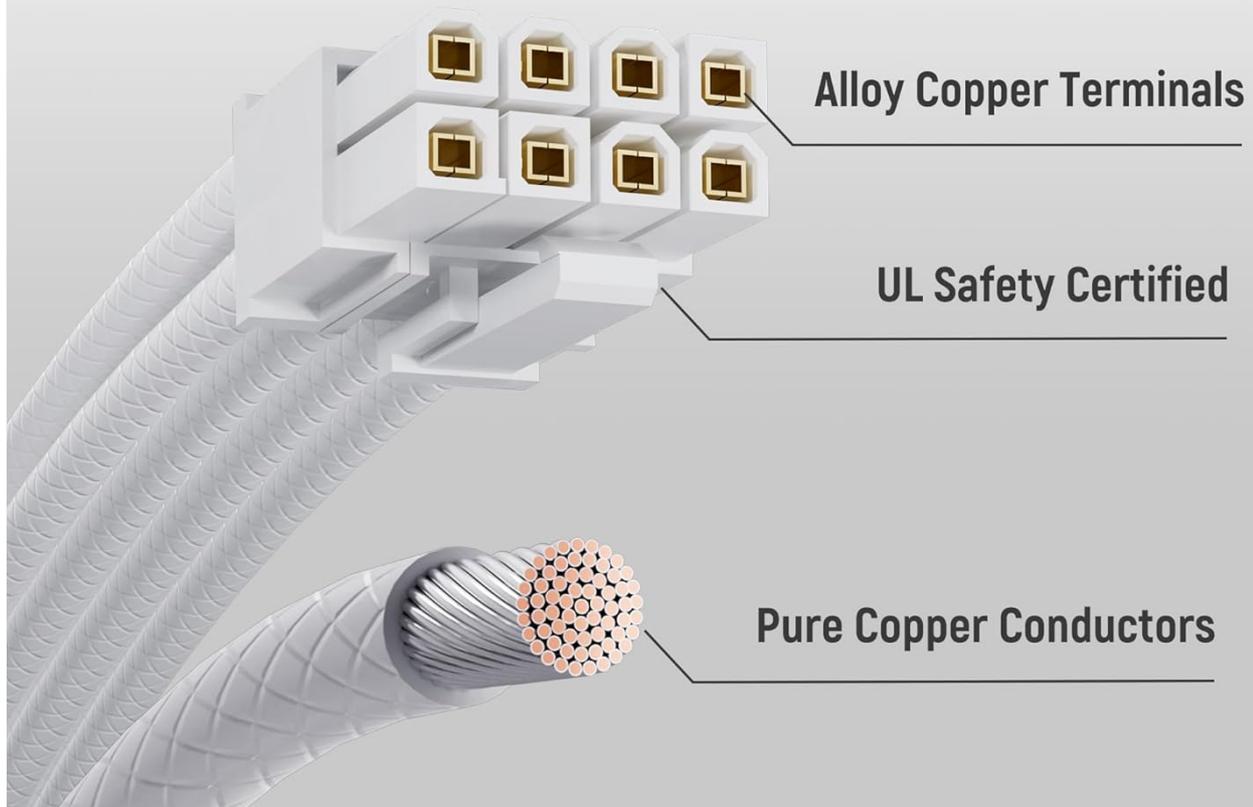


Image: A close-up view of the power supply cables, highlighting the use of alloy copper terminals and pure copper conductors for superior conductivity and safety, along with UL Safety Certification.

FLUID DYNAMIC BEARING FAN

Smooth rotation. Lower noise. Longer life.



Image: A detailed view of the Fluid Dynamic Bearing (FDB) fan, emphasizing its design for smooth rotation, lower noise, and longer lifespan.

HYBRID FAN CONTROL

Intelligent Thermal Control Switch



Button Released
Fan stops at low loads



Button Pressed
Fan always on

Image: A diagram showing the Hybrid Fan Control switch, with positions for 'Button Released' (fan stops at low loads) and 'Button Pressed' (fan always on), indicating intelligent thermal control.

OPTISINK DESIGN

Advanced Heat Dissipation

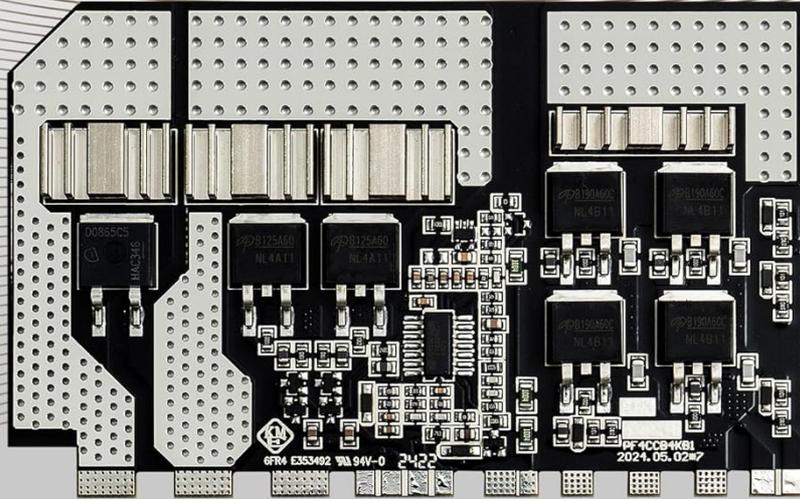


Image: A diagram illustrating the OptiSink Design, showcasing its advanced heat dissipation capabilities for improved thermal performance.

PSU TESTER INCLUDED

Instant Power Status Check



Image: The included PSU Tester, a tool for instant power status checks, ensuring proper functionality before full installation.

3. PACKAGE CONTENTS

Your Seasonic Focus GX 1000W Power Supply package includes the following items:

- Seasonic Focus GX 1000W Power Supply Unit
- Modular Cable Set (including 12V-2x6 cable)
- AC Power Cord
- PSU Tester
- Mounting Screws
- Cable Ties (Velcro and Zip Ties)
- PSU and Cable Storage Bags
- User Manual and Installation Guide

3.1. Unboxing Overview

Video: An official Seasonic video showcasing the unboxing of the Focus GX-1000 White ATX3 power supply, detailing all included components and accessories such as the PSU, modular cables, AC cable, screws, PSU tester, Velcro cable ties, cable ties, PSU bag, cable bag, installation guide, and user manual.

4. SETUP AND INSTALLATION

Follow these general steps to install your Seasonic Focus GX 1000W Power Supply. Refer to the included Installation Guide for detailed diagrams and specific instructions.

- 1. Prepare Your System:** Ensure your computer case is powered off and unplugged from the wall socket. Remove your old PSU if applicable.
- 2. Mount the PSU:** Secure the new Seasonic Focus GX 1000W PSU into your computer case using the provided mounting screws. Ensure proper orientation for optimal airflow (refer to the Installation Guide for 'Normal' and 'Hybrid' mode fan orientations).
- 3. Connect Modular Cables:** Attach only the necessary modular cables to the PSU and then to your motherboard, CPU, GPU (using the native 12V-2x6 connector for compatible cards), and other peripherals (SATA, Molex).
- 4. Test the PSU (Optional):** Use the included PSU Tester to verify basic functionality before connecting to all components.
- 5. Cable Management:** Use the provided cable ties to organize cables for improved airflow and a tidy build.
- 6. Final Connection:** Connect the AC power cord to the PSU and then to a wall socket.

5. OPERATING MODES (HYBRID FAN CONTROL)

The Seasonic Focus GX 1000W features an intelligent Hybrid Fan Control system that balances silence and cooling across three operational stages:

- Stage 1 – Fanless Mode:** At low loads (roughly up to 30% of rated load), the fan does not spin at all. This ensures zero noise, zero vibration, and completely silent operation during desktop use and light workloads. Your PC runs on passive cooling from the PSU.
- Stage 2 – Silent Mode:** As the load increases, the fan slowly ramps up at very low RPM. During gaming or moderate workloads, the fan spins quietly, providing excellent airflow while remaining largely inaudible inside a normal case.
- Stage 3 – Cooling Mode:** When the system is under heavy load (e.g., high-end gaming or workstation rendering), the fan ramps up for maximum cooling. This ensures stable power delivery, safe operating temperatures, and long-term reliability.

You can toggle between Hybrid Mode (fan stops at low loads) and Normal Mode (fan always on) using the switch located on the PSU.

6. SPECIFICATIONS

Feature	Detail
Model Name	Focus GX-1000
Output Wattage	1000 Watts
Form Factor	ATX
Efficiency	80 PLUS Gold / Cybenetics Gold
ATX Standard	ATX 3.1

PCIe Standard	PCIe 5.1 (Native 12V-2x6 connector)
Cooling Method	Air (135mm Fluid Dynamic Bearing Fan)
Product Dimensions	5.5 x 5.9 x 3.4 inches (140 x 150 x 86 mm)
Item Weight	3.65 pounds
Compatible Devices	Desktop Computer, Gaming PC
AC Input Range	100-240 Vac, 50-60 Hz
DC Output (+12V)	70A (840W)

7. SAFETY AND PROTECTION

The Seasonic Focus GX 1000W Power Supply is built with multiple protection features to safeguard your system components:

- **Over Power Protection (OPP):** Prevents damage from excessive power output.
- **Over Voltage Protection (OVP):** Protects components from damage due to voltage spikes.
- **Under Voltage Protection (UVP):** Ensures stable operation by shutting down if voltage drops below safe levels.
- **Over Current Protection (OCP):** Guards against damage from excessive current draw.
- **Over Temperature Protection (OTP):** Prevents overheating by shutting down the unit if internal temperatures exceed safe limits.
- **Short Circuit Protection (SCP):** Protects the PSU and connected components from damage in the event of a short circuit.

This PSU meets global safety and efficiency standards including cTUVus, TUV, CB, CCC, BSMI, EAC, CE, Energy Star, RoHS, WEEE, REACH, and ErP Lot 6, certifying it for worldwide use.

8. TROUBLESHOOTING

If you encounter issues with your Seasonic Focus GX 1000W Power Supply, consider the following:

- **No Power:** Ensure all cables are securely connected, especially the 24-pin motherboard connector, 8-pin CPU connectors, and the AC power cord. Check the power switch on the PSU and the wall outlet.
- **System Instability:** Verify that your power supply wattage is sufficient for all components, especially the GPU. Ensure all modular cables are correctly seated.
- **Fan Not Spinning:** In Hybrid Mode, the fan is designed to remain off at low loads. If the fan does not spin even under moderate load, check the Hybrid Mode switch position.
- **Unusual Noises:** Ensure the PSU is securely mounted and that no cables are obstructing the fan.
- **Utilize PSU Tester:** Use the included PSU Tester to quickly diagnose if the power supply itself is functioning correctly.

For further assistance, please refer to the detailed troubleshooting section in your User Manual or contact Seasonic customer support.

9. WARRANTY AND SUPPORT

The Seasonic Focus GX 1000W Power Supply comes with an industry-leading **10-year warranty**, reflecting Seasonic's

commitment to superior quality and reliability. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or any product-related inquiries, please visit the official Seasonic website or contact their customer service department. Always retain your proof of purchase for warranty validation.

9.1. Seasonic Product Overview

Video: An official Seasonic video providing a general overview of the FOCUS GX series power supplies, highlighting key features like the new internal design, OptiSink technology for improved thermal performance, and long-term reliability.