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> [Seasonic Focus GX 850W ATX 3.1 PCIe 5.1 Power Supply User Manual](#)

Seasonic Focus GX-850 ATX 3.1

Seasonic Focus GX 850W ATX 3.1 PCIe 5.1 Power Supply User Manual

Model: Focus GX-850 ATX 3.1

1. INTRODUCTION AND OVERVIEW

The Seasonic Focus GX 850W power supply is designed to deliver stable and efficient power to your computer system. This fully modular unit complies with ATX 3.1 and PCIe 5.1 standards, featuring a native 12V-2x6 connector for modern graphics cards. It is 80 PLUS Gold and Cybenetics Platinum certified, ensuring high energy efficiency. The OptiSink Design and 100% Japanese capacitors contribute to its reliable performance and quiet operation.

Key Features:

- ATX 3.1 / PCIe 5.1 ready with native 12V-2x6 connector.
- 80 PLUS Gold and Cybenetics Platinum certified for high efficiency.
- OptiSink Design for advanced heat dissipation.
- Supports NVIDIA RTX 5080 and AMD RX 9000 series graphics cards.
- Hybrid fan control with a 135 mm Fluid Dynamic Bearing (FDB) fan for quiet operation.
- Fully modular cabling for improved cable management.



Image 1.1: The Seasonic Focus GX 850W White Power Supply, a fully modular unit designed for high performance.

2. SETUP AND INSTALLATION

Before installing your new power supply, ensure your computer system is completely powered off and unplugged from the wall outlet. Always handle components with care and consider wearing an anti-static wrist strap.

2.1 Physical Installation

1. **Prepare your PC case:** Remove the old power supply if present. Ensure there is adequate space for the new unit.
2. **Mount the power supply:** Slide the Seasonic Focus GX 850W into the designated power supply bay in your PC case. Secure it with the provided screws.
3. **Connect the main motherboard cable:** Attach the 24-pin ATX cable to your motherboard.
4. **Connect CPU power cables:** Connect the 4+4-pin CPU power cables to the appropriate headers on your motherboard.
5. **Connect graphics card power cables:** For modern GPUs, use the native 12V-2x6 cable. For older or additional GPUs, use the 6+2-pin PCIe cables.
6. **Connect peripheral cables:** Attach SATA cables for storage drives (SSDs, HDDs) and Molex cables for other peripherals as needed.
7. **Organize cables:** Utilize the fully modular design to connect only necessary cables, reducing clutter and improving airflow within your case.



Image 2.1: Overview of the power supply's modular connectors and the included 12V-2x6 cable for ATX 3.1 and PCIe 5.1 compatibility.



Image 2.2: A diagram illustrating the types and lengths of fully modular cables included with the Focus GX 850 power supply.

2.2 Initial Power-On Test (Optional)

A PSU tester is included to verify basic functionality before full system integration.

1. Connect the 24-pin ATX cable from the PSU to the PSU tester.
2. Plug the power supply into a wall outlet and flip the main power switch on the PSU.

3. The PSU fan should spin briefly, indicating basic functionality. If the fan does not spin, recheck connections or consult the troubleshooting section.



Image 2.3: The included PSU tester, used for a quick check of the power supply's operational status.

3. OPERATING INSTRUCTIONS

The Seasonic Focus GX 850W features a Hybrid Fan Control system, allowing you to optimize between silent operation and maximum cooling.

3.1 Hybrid Fan Control

Located on the rear of the power supply, there is a switch for Hybrid Fan Control:

- **Button Released (Fan stops at low loads):** In this mode, the fan will remain off during low power consumption, providing silent operation. The fan will automatically activate when the load increases to maintain optimal temperatures.
- **Button Pressed (Fan always on):** In this mode, the fan operates continuously, regardless of the system load. This provides consistent cooling and may be preferred in high-performance systems or warmer environments.

PSU TESTER INCLUDED

Instant Power Status Check



Image 3.1: The Hybrid Fan Control switch, allowing users to select between silent operation at low loads or continuous fan operation.

3.2 OptiSink Design and Premium Components

The power supply incorporates Seasonic's OptiSink Design for advanced heat dissipation, ensuring stable performance even under heavy loads. High-quality Japanese capacitors are used throughout the unit for enhanced reliability and longevity.



Image 3.2: An illustration of the OptiSink Design, highlighting its role in advanced heat dissipation for improved performance and reliability.



Image 3.3: A close-up view of the internal components, showcasing the premium Japanese capacitors used in the power supply.

4. MAINTENANCE

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

- **Keep it clean:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup. Use compressed air to gently clear dust from the fan blades and internal heatsinks. Ensure the system is powered off and unplugged before cleaning.
- **Ensure proper airflow:** Make sure the power supply's intake and exhaust vents are not obstructed. Good airflow is crucial for efficient cooling.
- **Check cable connections:** Occasionally, verify that all modular cables are securely seated in both the power supply and the connected components.

5. TROUBLESHOOTING

If you encounter issues with your power supply, try the following troubleshooting steps:

1. No Power:

- Ensure the power cable is securely plugged into both the power supply and the wall outlet.
- Check that the main power switch on the back of the power supply is in the 'ON' position.
- Verify that all modular cables are correctly connected to the power supply and the system components.
- Test the power supply using the included PSU tester (refer to Section 2.2).

2. System Instability/Crashes:

- Ensure your system's power requirements do not exceed the 850W capacity of the PSU.
- Check for loose cable connections, especially to the motherboard and graphics card.
- Monitor system temperatures to rule out overheating issues.

3. Fan Noise:

- If the fan is constantly running and you prefer quieter operation, ensure the Hybrid Fan Control switch is in the 'Button Released' position (refer to Section 3.1).
- Clean any dust buildup from the fan and vents.

If these steps do not resolve the issue, please contact Seasonic customer support.

6. SPECIFICATIONS

Detailed technical specifications for the Seasonic Focus GX 850W Power Supply.

Feature	Specification
Model Name	Focus GX-850 White ATX 3.1
Brand	Seasonic
Output Wattage	850 Watts
Form Factor	ATX
Connector Type	ATX (Fully Modular)
Cooling Method	Air (135mm FDB Fan)
Product Dimensions (L x W x H)	5.5 x 5.9 x 3.4 inches (140 x 150 x 86 mm)
Item Weight	3.5 Pounds (1.59 kg)
Efficiency Certification	80 PLUS Gold, Cybenetics Platinum
Compatible Devices	Desktop Computer, Gaming PC
Special Features	ATX 3.1 / PCIe 5.1 Ready, Native 12V-2x6 Connector, Hybrid Fan Control, OptiSink Design, Japanese Capacitors

7. WARRANTY AND SUPPORT

The Seasonic Focus GX 850W Power Supply comes with a comprehensive **10-year warranty**, reflecting Seasonic's commitment to quality and reliability. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or further assistance, please visit the official Seasonic website or contact their customer service department. Keep your proof of purchase for warranty validation.

7.1 Product Video

Your browser does not support the video tag.

Video 7.1: An official product video demonstrating features and benefits of the Seasonic Focus GX power supply series.