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› [Seasonic](#) /

› Seasonic Vertex GX-1000 1000W Power Supply User Manual

Seasonic GX-1000

Seasonic Vertex GX-1000 1000W Power Supply User Manual

Model: GX-1000 | Brand: Seasonic

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Seasonic Vertex GX-1000 1000W 80 Plus Gold ATX Fully Modular Power Supply. The Vertex GX-1000 is designed to deliver stable and efficient power to your personal computer system, supporting modern standards such as ATX 3.0 and PCIe 5.0. It features a fully modular design for simplified cable management and includes fan control with a fanless mode for quiet operation under low loads.



Image 1.1: Angled view of the Seasonic Vertex GX-1000 Power Supply, showcasing its design and fan grille.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the power supply. Failure to comply with these instructions may result in electric shock, fire, or damage to the product and connected components.

- **High Voltage:** The power supply contains high voltage components. Do not open the power supply casing. There are no user-serviceable parts inside.
- **Professional Installation:** Installation should be performed by qualified personnel.
- **Proper Grounding:** Ensure the power supply is properly grounded through the AC power cord.
- **Ventilation:** Do not block any ventilation openings of the power supply. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the power supply to water or high humidity.
- **Power Off:** Always disconnect the AC power cord from the wall outlet before installing, removing, or cleaning the power supply or any connected components.

3. PACKAGE CONTENTS

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



Image 3.1: Overview of the Seasonic Vertex GX-1000 Power Supply and its included accessories.

- Seasonic Vertex GX-1000 Power Supply Unit
- Modular Cable Set (Motherboard, 12VHPWR, CPU, PCIe, SATA 3.3, SATA, Molex)
- AC Power Cable
- PSU and Cable Bags
- Quick Installation Manual
- User Manual (this document)
- Velcro Cable Ties
- Cable Ties
- Case Badge
- PSU Tester
- Mounting Screws

4. SETUP AND INSTALLATION

Follow these steps to properly install your Seasonic Vertex GX-1000 power supply into your computer system.

4.1 Pre-Installation Checks

- Ensure your computer case is compatible with ATX form factor power supplies.
- Verify that your motherboard and other components are compatible with the power requirements of the GX-1000.
- Unpack the power supply and all modular cables.

4.2 Physical Installation

1. Turn off your computer and disconnect the AC power cord from the wall outlet.
2. Open your computer case.
3. Mount the Seasonic Vertex GX-1000 into the designated power supply bay in your computer case, typically at the bottom or top rear. Secure it with the provided mounting screws.

4.3 Modular Cable Connections

The Vertex GX-1000 is a fully modular power supply, allowing you to connect only the cables you need. Refer to the diagram below for proper connection points on the PSU.

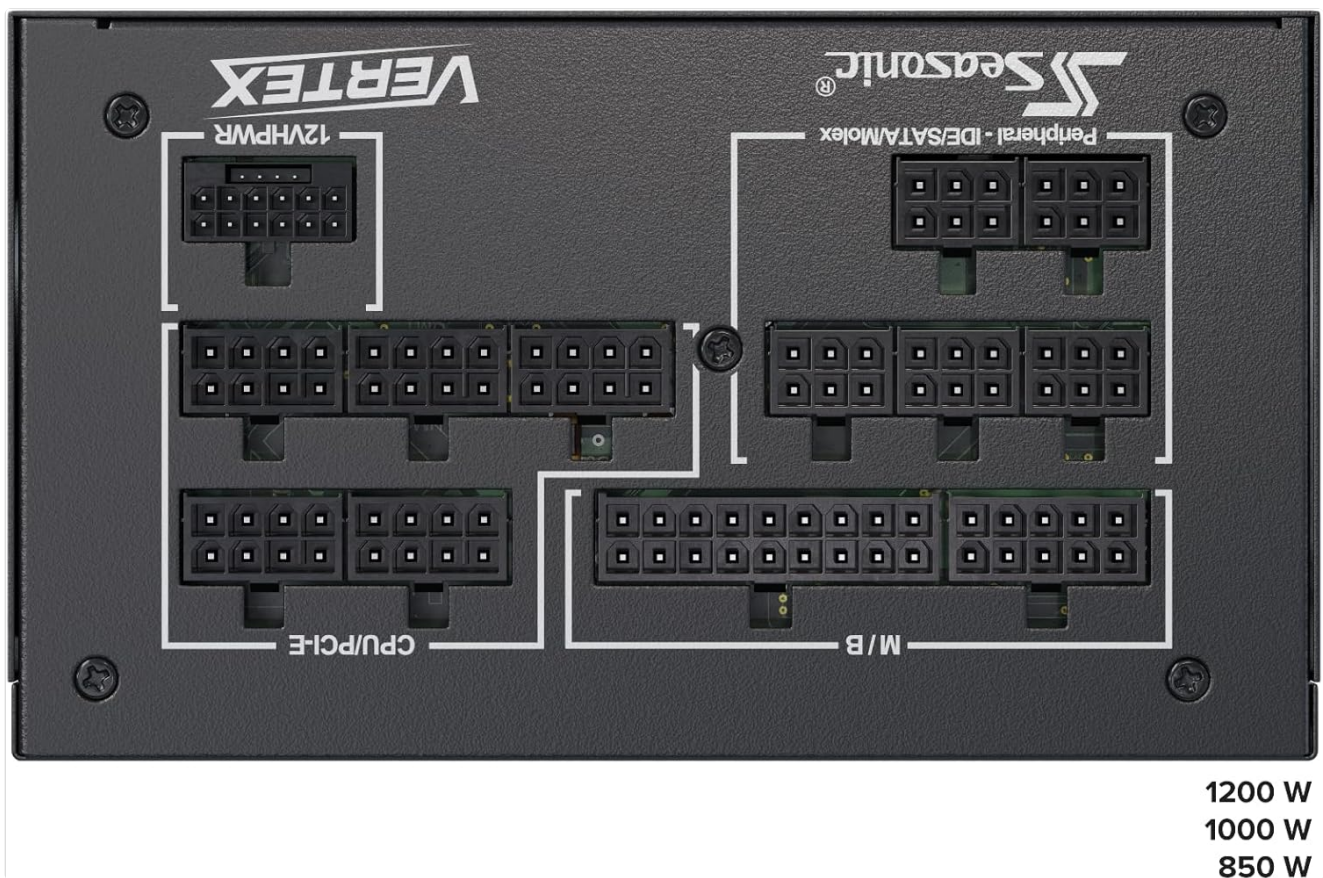


Image 4.1: Diagram illustrating the modular cable connection ports on the Seasonic Vertex GX-1000 Power Supply.

1. Connect the 24-pin ATX cable to the 'M/B' port on the power supply and to your motherboard's 24-pin connector.
2. Connect the 8-pin (4+4) CPU cables to the 'CPU/PCI-E' ports on the power supply and to your motherboard's CPU power connectors.
3. For graphics cards, use the appropriate PCIe cables (6+2 pin or 12VHPWR 16-pin) and connect them to the 'CPU/PCI-E' or '12VHPWR' ports on the power supply and to your graphics card(s). The 12VHPWR connector supports PCIe 5.0 graphics cards.
4. Connect SATA power cables to the 'Peripheral - IDE/SATA/Molex' ports on the power supply and to your storage drives (SSDs, HDDs) and other SATA-powered devices.
5. Connect Molex power cables (if needed) to the 'Peripheral - IDE/SATA/Molex' ports on the power supply and to any legacy peripherals.
6. Ensure all connections are firm and secure. Use the provided cable ties for neat cable management.

4.4 Final Steps

1. Close your computer case.
2. Connect the AC power cord to the power supply's AC inlet and then to a grounded wall outlet.

5. OPERATING INSTRUCTIONS

Once installed, operating your Seasonic Vertex GX-1000 is straightforward.



Image 5.1: Rear view of the Seasonic Vertex GX-1000, showing the main power switch and the Hybrid Mode switch.

5.1 Powering On/Off

1. Ensure the main power switch on the rear of the power supply (next to the AC inlet) is in the 'ON' (I) position.
2. Press the power button on your computer case to start the system.
3. To turn off the system, use the operating system's shutdown function. For complete power disconnection, switch the power supply's main switch to the 'OFF' (O) position and unplug the AC cord.

5.2 Hybrid Fan Mode

The Seasonic Vertex GX-1000 features a Hybrid Fan Mode, which allows the power supply fan to remain off under low to moderate loads for silent operation. The fan will automatically activate when the load increases or the internal temperature reaches a certain threshold.

- **Enabling Hybrid Mode:** Locate the 'HYBRID MODE' switch on the rear of the power supply (refer to Image 5.1). Set the switch to the 'ON' position.
- **Disabling Hybrid Mode:** Set the 'HYBRID MODE' switch to the 'OFF' position. In this mode, the fan will operate continuously, providing active cooling at all times.

6. MAINTENANCE

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

- **Dust Removal:** Periodically clean the exterior of the power supply and its fan grille to prevent dust buildup. Use compressed air or a soft brush. Always disconnect the AC power cord before cleaning.
- **Ventilation:** Ensure that the air intake and exhaust vents of the power supply are not obstructed by cables or other components within the PC case.
- **Operating Environment:** Operate the power supply in a well-ventilated area with stable room temperature and humidity.
- **No Internal Servicing:** Do not attempt to open the power supply casing for internal cleaning or repairs. This will void your warranty and poses a risk of electric shock.

7. TROUBLESHOOTING

If you encounter issues with your Seasonic Vertex GX-1000 power supply, refer to the following troubleshooting steps.

7.1 No Power to System

- **AC Power Cord:** Ensure the AC power cord is securely connected to both the power supply and a working wall outlet.
- **Main Power Switch:** Verify that the main power switch on the rear of the power supply is in the 'ON' (I) position.
- **Modular Cables:** Check all modular cables (24-pin ATX, CPU, PCIe) are firmly connected to both the power supply and the respective components.
- **Wall Outlet:** Test the wall outlet with another device to ensure it is supplying power.
- **PSU Tester:** Use the included PSU tester to verify if the power supply is functioning independently.

7.2 System Instability or Random Shutdowns

- **Overload:** Ensure your system's power requirements do not exceed the 1000W capacity of the power supply.
- **Ventilation:** Check for adequate airflow within the PC case and ensure power supply vents are not blocked. Overheating can cause instability.
- **Cable Connections:** Re-check all modular cable connections for looseness.
- **Component Issues:** Rule out other component failures (e.g., RAM, GPU, CPU) by testing them if possible.

If troubleshooting steps do not resolve the issue, please contact Seasonic customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Seasonic Vertex GX-1000 1000W Power Supply.

Feature	Specification
Model Name	Vertex GX-1000
Brand	Seasonic
Output Wattage	1000 Watts
Form Factor	ATX
Power Supply Design	Full Modular
80 PLUS Certification	Gold
Cooling Method	Air (with Hybrid Fan Control)
Number of Fans	1
Compatible Devices	Personal Computer
Connector Types	ATX, PCIe (including 12VHPWR 16-pin)
Maximum Input Voltage	12 Volts
Minimum Input Voltage	12 Volts (AC)
Item Dimensions (L x W x H)	7.3 x 13.6 x 4.5 inches
Item Weight	6.02 Pounds
Manufacturer Part Number	PSUSEAVERTEX1000GX
UPC	882016002373

9. WARRANTY AND SUPPORT

Seasonic products are manufactured to the highest quality standards and come with a comprehensive warranty.

9.1 Warranty Information

For detailed information regarding the warranty period, terms, and conditions for your Seasonic Vertex GX-1000 power supply, please refer to the official Seasonic website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

9.2 Customer Support

If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact Seasonic customer support through their official website. You can typically find contact information, FAQs, and support resources on the 'Support' or 'Contact Us' section of the Seasonic website.

