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Seasonic VERTEX GX-1200

Seasonic VERTEX GX-1200 1200W 80+ Gold ATX 3.0 & PCIe 5.0 Power Supply User Manual

Model: VERTEX GX-1200

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Seasonic VERTEX GX-1200 1200W 80+ Gold ATX 3.0 & PCIe 5.0 Power Supply. The Seasonic VERTEX GX-1200 is a high-performance, fully modular power supply designed to meet the demands of modern computing systems, offering high efficiency and robust power delivery.

SAFETY INSTRUCTIONS

- Always disconnect the AC power cord from the wall outlet before installing or removing the power supply.
- Ensure proper grounding to prevent electrical shock.
- Do not open the power supply unit. High voltages are present inside, which can cause serious injury or death.
- Install the power supply in a well-ventilated area, away from heat sources or direct sunlight.
- Use only the modular cables provided with your Seasonic power supply. Using incompatible cables may damage your system.
- Keep the power supply away from moisture and extreme temperatures.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Seasonic VERTEX GX-1200 Power Supply Unit
- Modular Cable Set (including 12VHPWR cable)

- AC Power Cord
- Mounting Screws
- Cable Ties (Velcro and plastic)
- PSU Tester
- User Manual & Installation Guide
- PSU and Cable Storage Bags



Image: Various modular cables included with the Seasonic VERTEX GX-1200 Power Supply, neatly bundled.

SETUP

1. Physical Installation

1. Ensure your computer case is powered off and disconnected from the wall outlet.
2. Locate the power supply mounting area in your computer case.
3. Carefully slide the Seasonic VERTEX GX-1200 into the designated slot.
4. Secure the power supply to the case using the provided mounting screws.



Image: Top view of the Seasonic VERTEX GX-1200 Power Supply, ready for installation.

2. Connecting Modular Cables

The Seasonic VERTEX GX-1200 is a fully modular power supply, allowing you to connect only the cables your system requires. This reduces cable clutter and improves airflow.

- **Motherboard Power:** Connect the 24-pin ATX cable to the corresponding port on the PSU and your motherboard.
- **CPU Power:** Connect the 4+4-pin or 8-pin EPS/CPU cables to the PSU and your motherboard's CPU power connectors.
- **PCIe Power (Graphics Cards):**
 - For modern graphics cards, use the dedicated **12VHPWR (PCIe 5.0) cable**. Ensure it is fully seated into both the PSU and the graphics card.
 - For other graphics cards, use the 6+2-pin PCIe cables. Connect them to the PSU and your graphics card(s).
- **SATA/Molex Power:** Connect SATA cables for storage drives (HDDs, SSDs) and Molex cables for other peripherals as needed.



Image: Modular cable connection panel of the Seasonic VERTEX GX-1200 Power Supply, showing clearly labeled ports for various cables.

3. Power Connection

1. Once all internal connections are secure, connect the AC power cord to the power supply unit.
2. Plug the other end of the AC power cord into a wall outlet.
3. Flip the power switch on the back of the PSU to the 'ON' position.



Image: Front view of the Seasonic VERTEX GX-1200 Power Supply, highlighting the power input and ON/OFF switch.

OPERATING

Hybrid Silent Fan Control (0 RPM Mode)

The Seasonic VERTEX GX-1200 features Hybrid Silent Fan Control, which allows for silent operation at low to moderate loads. In this mode, the 135mm Fluid Dynamic Bearing (FDB) fan will not spin until a certain load or temperature threshold is reached. This is normal operation and indicates the power supply is functioning correctly.

You can typically toggle between Hybrid Mode (0 RPM fan mode) and normal fan mode using a switch on the power supply unit, if available. Refer to the specific switch on your unit for its function.



Image: Close-up of the 135mm Fluid Dynamic Bearing fan on the Seasonic VERTEX GX-1200 Power Supply, designed for quiet operation.

MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the power supply and the fan grille to prevent dust buildup, which can impede airflow and reduce cooling efficiency. Use a soft, dry cloth or compressed air. Ensure the power supply is turned off and unplugged before cleaning.
- **Airflow:** Ensure that there is adequate airflow around the power supply inside your computer case. Avoid blocking any vents.
- **Cable Management:** Proper cable management not only improves aesthetics but also enhances airflow, contributing to better cooling and longevity of components.

TROUBLESHOOTING

- **Power Supply Not Turning On:**
 - Check that the AC power cord is securely plugged into both the wall outlet and the power supply.
 - Ensure the power switch on the back of the PSU is in the 'ON' position.
 - Verify all modular cables are correctly and firmly connected to the PSU and your components.
 - Use the provided PSU tester to check if the power supply is functioning independently.
- **Fan Not Spinning:**

- If the power supply is operating under low load, the fan may not spin due to the Hybrid Silent Fan Control (0 RPM mode). This is normal. The fan will activate automatically when the load or temperature increases.
 - If the fan never spins even under heavy load, ensure the Hybrid Mode switch (if present) is in the correct position or try toggling it.
- **System Instability/Crashes:**
 - Ensure all power connections are secure. Loose connections can cause instability.
 - Verify that your system's power requirements do not exceed the PSU's capacity.
 - Check for proper ventilation within your case to prevent overheating.

SPECIFICATIONS

Feature	Description
Model Name	VERTEX GX-1200
Output Wattage	1200 Watts
Efficiency Certification	80 PLUS® Gold Certified
ATX Standard	ATX 3.0 Compliant
PCIe Standard	PCIe 5.0 Ready (with 12VHPWR cable)
Modularity	Fully Modular Cabling Design
Fan Type	135 mm Fluid Dynamic Bearing (FDB) Fan
Fan Control	Seasonic Hybrid Silent Fan Control (0 RPM mode)
Capacitors	Premium Japanese 105 °C Aluminum Electrolytic Capacitors
Voltage Regulation	Tight Voltage Regulation ($\pm 3\%$ for 12 V, 5 V and 3.3 V)
Dimensions (L x W x H)	7.3 x 13.6 x 4.5 inches
Item Weight	3.3 Kilograms



Image: Internal view of the Seasonic VERTEX GX-1200 Power Supply, showcasing its high-quality components.

PRODUCT OVERVIEW VIDEO

Video: A detailed product overview of the Seasonic VERTEX GX-1200 Power Supply, highlighting its features and design.

WARRANTY & SUPPORT

The Seasonic VERTEX GX-1200 Power Supply comes with an extensive **12-Year Warranty**, reflecting the manufacturer's confidence in its quality and durability. For warranty claims, technical support, or additional product information, please visit the official Seasonic website or contact their customer service department.

Online Resources: For further assistance, FAQs, and driver downloads, please visit the [Seasonic Support Page](#).