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› Seasonic FOCUS GX-650 (SSR-650FX) 650W Power Supply User Manual

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Seasonic FOCUS GX-650 (SSR-650FX) 650W Power Supply User Manual

MODEL: FOCUS GX-650 (SSR-650FX)

Brand: Seasonic

Product Overview

The Seasonic FOCUS GX-650 is a 650W 80 PLUS Gold certified, full-modular ATX power supply. Engineered with advanced technology, this power supply delivers outstanding electrical performance in a compact design. It features a low-noise operation and utilizes premium Japanese capacitors for enhanced reliability and stability.



Image: Front view of the Seasonic FOCUS GX-650 power supply.

Key Features

- **Compact Size:** 140 mm deep, offering a high power output to size ratio for versatile system integration.
- **Full Modular Design:** Allows users to connect only the necessary cables, reducing clutter and improving airflow within the system for better ventilation.
- **80 PLUS Gold Certified:** Achieves 87% efficiency at 20% load, 90% efficiency at 50% load, and 87% efficiency at 100% load, ensuring energy savings and reduced heat generation.
- **Hybrid Silent Fan Control:** Seasonic's patented three-phased thermal control system optimizes the balance between silence and cooling. This feature operates in three stages: Fanless Mode, Silent Mode, and Cooling Mode.
- **Premium Japanese Capacitors:** Ensures long-term stability and reliability.
- **10-Year Warranty:** Reflects a commitment to superior product quality and customer assurance.

Package Contents

Verify that all items listed below are included in your product package:

- Seasonic FOCUS GX-650 Power Supply Unit
- Modular Cable Set (Mainboard, CPU, PCIe, SATA, Molex)
- AC Power Cord
- Cable Ties and Velcro Straps
- PSU Tester

- User Manual
- Carrying Bag for Cables



Image: All components included in the Seasonic FOCUS GX-650 power supply package.



Image: Close-up view of the modular cables provided with the Seasonic FOCUS GX-650.

Video: Official unboxing of the Seasonic FOCUS GX Power Supply, showing package contents and initial setup.

Video: Unboxing of the Seasonic FOCUS Plus Gold, demonstrating the included accessories and power supply unit.

Setup and Installation

Before installing your Seasonic FOCUS GX-650 power supply, ensure your computer system is powered off and disconnected from the main power outlet. Refer to your computer case and motherboard manuals for specific installation guidelines.

1. Mount the power supply securely into the designated PSU bay in your computer case using the provided screws.
2. Connect the necessary modular cables to the power supply unit. The connectors are clearly labeled for Mainboard (M/B), CPU, PCIe, SATA, and Molex.
3. Connect the 24-pin mainboard cable to your motherboard.
4. Connect the 4/8-pin CPU power cable(s) to your motherboard.
5. Connect the 6/8-pin PCIe power cable(s) to your graphics card(s) as required.
6. Connect SATA and Molex cables to your storage drives and other peripherals.
7. Ensure all connections are firm and properly seated. Use the provided cable ties and Velcro straps for organized cable management.
8. Connect the AC power cord to the power supply and then to a wall outlet.
9. Toggle the power switch on the PSU to the 'ON' position.

Important Safety Note: This power supply is only compatible with cables provided by Seasonic. Using unapproved cables may result in malfunction and void the warranty.



Image: Rear view of the Seasonic FOCUS GX-650 showing modular cable connection ports.

Operating Instructions

The Seasonic FOCUS GX-650 is designed for reliable and efficient operation. Once installed, the power supply will automatically manage power delivery to your system components. The Hybrid Silent Fan Control feature allows for quiet operation under low to moderate loads, with the fan activating only when necessary to maintain optimal temperatures.

- **Fanless Mode:** Under low power loads, the fan may remain off for silent operation.
- **Silent Mode:** As load increases, the fan will spin at a low RPM to maintain quiet cooling.
- **Cooling Mode:** Under high loads, the fan speed will increase to provide maximum cooling performance.

Ensure adequate ventilation around your computer case to facilitate proper airflow for the power supply and other components.



Image: Top view of the Seasonic FOCUS GX-650, highlighting the cooling fan.

Maintenance

The Seasonic FOCUS GX-650 power supply requires minimal maintenance. Regular cleaning can help ensure optimal performance and longevity.

- **Dust Removal:** Periodically clean dust from the power supply's fan grille and ventilation openings using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Periodically check cable connections to ensure they remain secure and free from obstruction.
- **Environmental Conditions:** Operate the power supply in a clean, dry environment with stable temperatures to prevent damage.

Troubleshooting

If you encounter issues with your Seasonic FOCUS GX-650 power supply, consider the following basic troubleshooting steps:

- **No Power:** Ensure the AC power cord is securely connected to both the power supply and the wall outlet. Verify the power

switch on the PSU is in the 'ON' position. Check the wall outlet with another device.

- **System Not Booting:** Double-check all modular cable connections to the motherboard, CPU, and graphics card. Ensure they are fully seated.
- **Intermittent Shutdowns:** This could indicate an overloaded power supply or overheating. Verify your system's power requirements do not exceed the PSU's capacity. Ensure adequate airflow within the case.
- **Unusual Noises:** While the Hybrid Silent Fan Control minimizes noise, persistent or unusual noises (e.g., grinding, buzzing) may indicate a fan issue. If the noise is significant, contact customer support.
- **Using the PSU Tester:** The included PSU tester can help verify basic power supply functionality. Connect the 24-pin motherboard cable to the tester and power on the PSU. If the tester indicates a fault, the PSU may be defective.

For advanced troubleshooting or issues not resolved by these steps, please contact Seasonic customer support.



Image: Rear view of the Seasonic FOCUS GX-650, showing the power input and hybrid mode switch.

Specifications

Specification	Value
Model Name	FOCUS Plus 650 Gold
Brand	Seasonic
Compatible Devices	Personal Computer
Connector Type	ATX
Output Wattage	650 Watts
Form Factor	ATX12V
Cooling Method	Air
Item Dimensions (L x W x H)	7.28 x 12.44 x 4.69 inches

Item Weight	1.5 Kilograms
Power Supply Design	Full Modular
Number of Fans	1
Fan Size	120 Millimeters
Maximum Input Voltage	240 Volts (AC)
Minimum Input Voltage	100 Volts (AC)
Model Number	SSR-650FX
Warranty Description	10 years manufacturer direct warranty

Warranty and Support

The Seasonic FOCUS GX-650 (SSR-650FX) is backed by a comprehensive **10-year manufacturer direct warranty**. 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. Keep your proof of purchase for warranty validation.