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› [Corsair SF Series SF600 600 Watt Fully Modular 80+ Gold Certified Power Supply User Manual](#)

## Corsair SF600

# Corsair SF Series SF600 600 Watt Fully Modular 80+ Gold Certified Power Supply User Manual

## INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Corsair SF Series SF600 600 Watt Fully Modular 80+ Gold Certified Power Supply. Please read this manual thoroughly before installation to ensure proper and safe usage of the product.

The Corsair SF600 is a high-performance SFX form factor power supply designed for small form factor systems, offering 600 watts of continuous power, 80 PLUS Gold efficiency, and fully modular cabling.

## SAFETY INFORMATION

Please observe the following safety precautions to prevent injury and damage to your system:

- **Do not open the power supply unit.** High voltages are present inside, and opening the unit will void the warranty.
- Install the power supply in a well-ventilated area, away from heat sources and direct sunlight.
- Ensure the power supply is disconnected from the AC outlet before installing or removing any components.
- Use only the modular cables provided with your Corsair SF600 power supply. Third-party cables may not be compatible and could cause damage.
- This product is intended for use in computer systems only. Do not use it for any other purpose.
- Keep out of reach of children.

## PACKAGE CONTENTS

Verify that all items are present in your package:

- Corsair SF600 Power Supply Unit
- Modular Cable Set (6 cables)
- AC Power Cord

- Mounting Screws
- Cable Ties



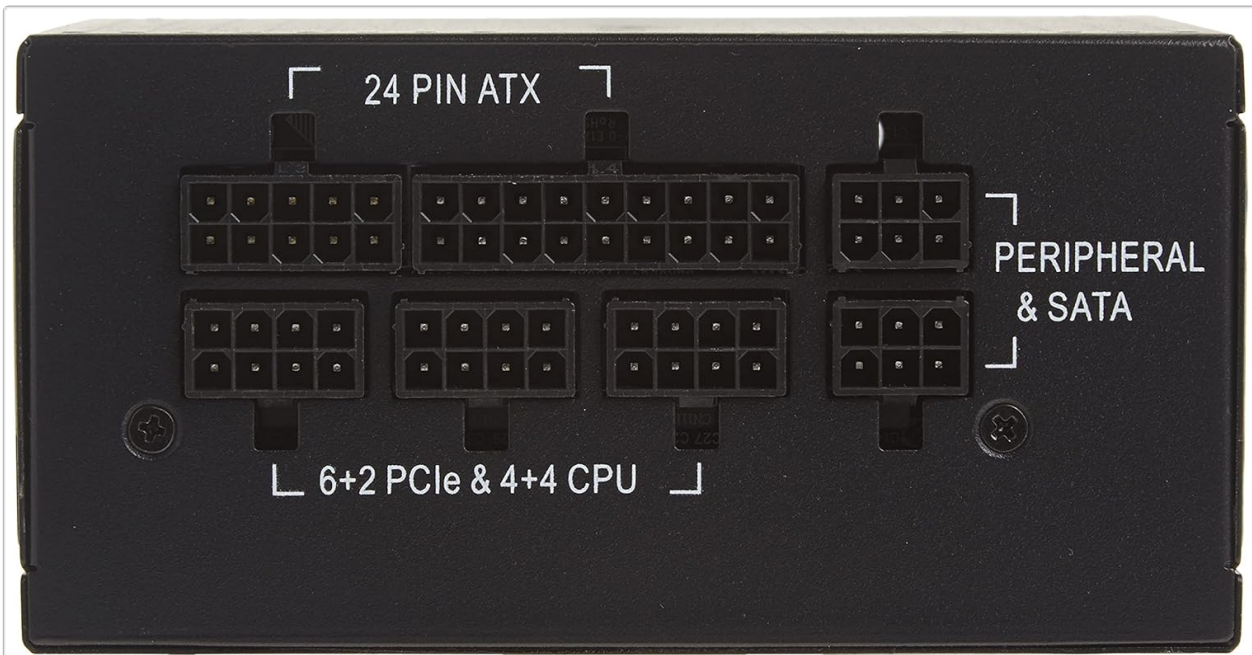
**Figure 1:** Included modular cables, AC power cord, mounting screws, and cable ties for the Corsair SF600 power supply.

## SETUP AND INSTALLATION

Follow these steps to install your Corsair SF600 power supply:

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall outlet. Open your computer case to access the power supply mounting area.
2. **Remove Old Power Supply (if applicable):** Disconnect all cables from your old power supply and remove it from the case.
3. **Mount the Power Supply:** Carefully place the Corsair SF600 into the designated SFX power supply bay in your computer case. Secure it with the provided mounting screws.
4. **Connect Modular Cables:**
  - Identify the necessary cables for your motherboard, CPU, graphics card(s), and storage devices.
  - Connect the required modular cables to the corresponding ports on the power supply unit. Refer to Figure 2 for port identification.
  - Connect the other end of each cable to the respective components in your system. Ensure all connections are firm and secure.
5. **Connect AC Power:** Once all internal connections are made, connect the AC power cord to the power supply's AC inlet and then to a wall outlet.
6. **Power On:** Flip the power switch on the back of the power supply to the 'ON' (I) position. You can now

power on your computer.



**Figure 2:** Modular cable connection ports on the Corsair SF600, showing labels for 24-pin ATX, PCIe/CPU, and Peripheral/SATA.





**Figure 3:** Rear panel of the Corsair SF600, featuring the AC power inlet and the power switch.

## OPERATING INSTRUCTIONS

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The Corsair SF600 power supply is designed for reliable and efficient operation.

### Zero RPM Fan Mode

The SF600 features a Zero RPM Fan Mode. This means the cooling fan will not spin at low and medium loads, resulting in virtually silent operation. The fan will automatically activate when the power supply reaches a certain temperature or load threshold to maintain optimal cooling.



**Figure 4:** Top view of the SF600 fan, which operates in Zero RPM mode under low loads.

## MAINTENANCE

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To ensure the longevity and optimal performance of your power supply, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup. Use a can of compressed air to gently remove dust from the fan and vents. Ensure the power supply is unplugged before cleaning.
- **Ventilation:** Ensure that the computer case has adequate airflow and that the power supply's intake and exhaust vents are not obstructed.
- **Cable Management:** Proper cable management can improve airflow within your case, contributing to better cooling for all components, including the power supply.

## TROUBLESHOOTING

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If you encounter issues with your Corsair SF600 power supply, refer to the following common troubleshooting steps:

- **No Power:**
  - Check that the AC power cord is securely connected to both the power supply and the wall outlet.
  - Ensure the power switch on the back of the power supply is in the 'ON' (I) position.
  - Verify that all modular cables are correctly and firmly connected to both the power supply and your system components.
  - Test the wall outlet with another device to confirm it is supplying power.
- **System Instability/Crashes:**
  - Ensure your system's power requirements do not exceed the SF600's 600W capacity.
  - Check all power connections to components (motherboard, CPU, GPU) for secure fit.
  - Verify that your system components are not overheating.
- **Fan Not Spinning:**
  - The SF600 features Zero RPM Fan Mode. The fan will only spin under higher loads or

temperatures. This is normal operation.

- If the fan does not spin even under heavy load, ensure there are no obstructions and that the power supply is receiving adequate airflow.

If problems persist after following these steps, please contact Corsair customer support for further assistance.

## SPECIFICATIONS

Key technical specifications for the Corsair SF Series SF600 Power Supply:

Feature	Specification
Brand	Corsair
Model Number	CP-9020105-NA
Series	SF Series
Form Factor	SFX12V
Wattage	600 Watts
Efficiency Certification	80 PLUS Gold
Modularity	Fully Modular
Cooling Method	Air (Zero RPM Fan Mode)
Capacitors	100% Japanese 105°C Electrolytic
Continuous Output Rated Temperature	40°C
Dimensions (LxWxH)	4.9 x 2.5 x 3.9 inches (125 x 63.5 x 100 mm)
Item Weight	1.9 pounds (0.86 kg)
Voltage	120 Volts
Compatible Devices	Personal Computer
Connector Type	SATA

### Key Features:

- SFX Form Factor for high performance in small systems.
- 80 PLUS Gold certified for high efficiency and reduced heat.
- Fully Modular cabling for simplified installation and clean builds.
- 100% Japanese 105°C electrolytic capacitors for reliable power delivery.
- Zero RPM Fan Mode for quiet operation at low to medium loads.

## WARRANTY AND SUPPORT

The Corsair SF Series SF600 Power Supply comes with a **seven-year warranty**, ensuring reliable operation across multiple system builds. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or further assistance, please visit the official Corsair support website or

contact their customer service department. Keep your proof of purchase for warranty validation.

**Online Support:** [www.corsair.com/support](http://www.corsair.com/support)