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> CORSAIR SF1000 (2024) Power Supply User Manual

Corsair SF1000

CORSAIR SF1000 (2024) Power Supply User Manual

Model: SF1000 (CP-9020257-NA) | Brand: Corsair

1. INTRODUCTION AND OVERVIEW

The CORSAIR SF1000 (2024) is a high-performance, fully modular SFX power supply designed for small form factor (SFF) PCs. It delivers 1000 watts of stable power with 80 PLUS Platinum efficiency, ensuring reliable operation for demanding systems. This power supply is ATX 3.0 compliant and PCIe 5.0 ready, making it suitable for the latest PC components.

CORSAIR SF SERIES SF1000 PLATINUM POWER SUPPLY

Unleash massive 80 PLUS Platinum power in a compact size,
perfect for high-performance SFF PCs.



Image: The CORSAIR SF1000 Platinum Power Supply, highlighting its compact size and high efficiency.

Key features include a 92mm PWM cooling fan with Zero RPM Mode for quiet operation at low loads, and 105°C rated Japanese capacitors for enhanced durability and reliability. An SFX-to-ATX bracket is included for versatile installation options in various case sizes.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the power supply. Failure to do so may result in personal injury or damage to equipment.

- **Electrical Hazard:** Do not open the power supply unit. High voltages are present inside, even when disconnected from power.
- **Ventilation:** Ensure adequate airflow around the power supply. Do not block ventilation openings.
- **Environment:** Operate the power supply in a dry, well-ventilated environment, away from moisture, extreme temperatures, and direct sunlight.

- **Grounding:** Always connect the power supply to a grounded electrical outlet.
- **Cable Management:** Use only the provided modular cables. Ensure all cables are securely connected to prevent electrical shorts or instability.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- CORSAIR SF1000 Power Supply Unit
- Modular Cable Set (Type-5 Micro-Fit Connectors)
 - 1x 24-pin ATX (24-pin)
 - 2x ATX 12V/EPS12V (4+4-pin)
 - 1x 12V-2x6 (12+4-pin)
 - 4x PCIe (6+2-pin)
 - 1x 4 SATA (Straight)
 - 1x 4 SATA (Right)
 - 1x 4 PATA (4-pin)
- SFX-to-ATX Bracket
- Mounting Screws
- AC Power Cord
- User Manual (this document)



Image: The CORSAIR SF1000 Power Supply shown with its retail packaging, indicating typical package contents.

4. SETUP AND INSTALLATION

Follow these steps to properly install your CORSAIR SF1000 power supply into your PC system.

4.1 Physical Installation

1. **Prepare your case:** Ensure your PC case is compatible with SFX form factor power supplies. If installing in an ATX case, attach the included SFX-to-ATX bracket to the SF1000 before mounting.
2. **Mount the PSU:** Secure the SF1000 into the designated power supply bay using the provided mounting screws. Ensure the fan faces the correct direction for optimal airflow (typically facing downwards or towards an intake vent).

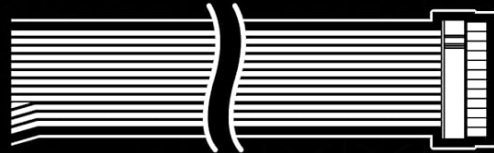
4.2 Cable Connections

The SF1000 features a fully modular design, allowing you to connect only the cables necessary for your components. Use only genuine CORSAIR Type-5 Micro-Fit cables.

FULLY MODULAR WITH TYPE 5 MICRO-FIT CONNECTORS

Connect only the cables you need.

1x 24-pin ATX (24-pin)



2x ATX 12V/EPS12V (4+4-pin)



1x 12V-2x6 (12+4-pin)



4x PCIe (6+2-pin)



1x 4 SATA (Straight)



1x 4 SATA (Right)



1x 4 PATA (4-pin)



Image: Diagram illustrating the various Type-5 Micro-Fit modular cables included with the SF1000 power supply.

- **Motherboard Power:** Connect the 24-pin ATX cable from the PSU to your motherboard's 24-pin connector.
- **CPU Power:** Connect the ATX 12V/EPS12V (4+4-pin) cable(s) to your motherboard's CPU power connector(s).
- **Graphics Card Power:** For modern graphics cards, connect the 12V-2x6 (12+4-pin) cable directly to the GPU. For older or multiple GPUs, use the PCIe (6+2-pin) cables as required. The SF1000 is PCIe 5.0 ready.
- **Storage and Peripherals:** Connect SATA cables to your SSDs, HDDs, and optical drives. Use PATA cables for older peripherals if necessary.



Image: Internal view of the SF1000 power supply, highlighting its ATX 3.1 certification and PCIe 5.1 readiness.

Ensure all connections are firm and properly seated. Improper connections can lead to system instability or damage.

5. OPERATING INSTRUCTIONS

Once installed, operating the CORSAIR SF1000 is straightforward.

5.1 Powering On/Off

1. **Connect AC Power:** Plug the AC power cord into the power supply and then into a grounded wall outlet or surge protector.
2. **Flip Power Switch:** Ensure the power switch on the back of the power supply is in the 'ON' (I) position.
3. **System Power:** Power on your computer using the case's power button.
4. **Power Off:** To power off, shut down your operating system normally, then flip the power switch on the PSU to the 'OFF' (O) position.

5.2 Zero RPM Fan Mode

The SF1000 features a 92mm PWM cooling fan with Zero RPM Mode. This mode ensures the fan remains off at low to medium loads, providing silent operation. The fan will automatically spin up when the power supply reaches a certain temperature or load threshold to maintain optimal cooling.

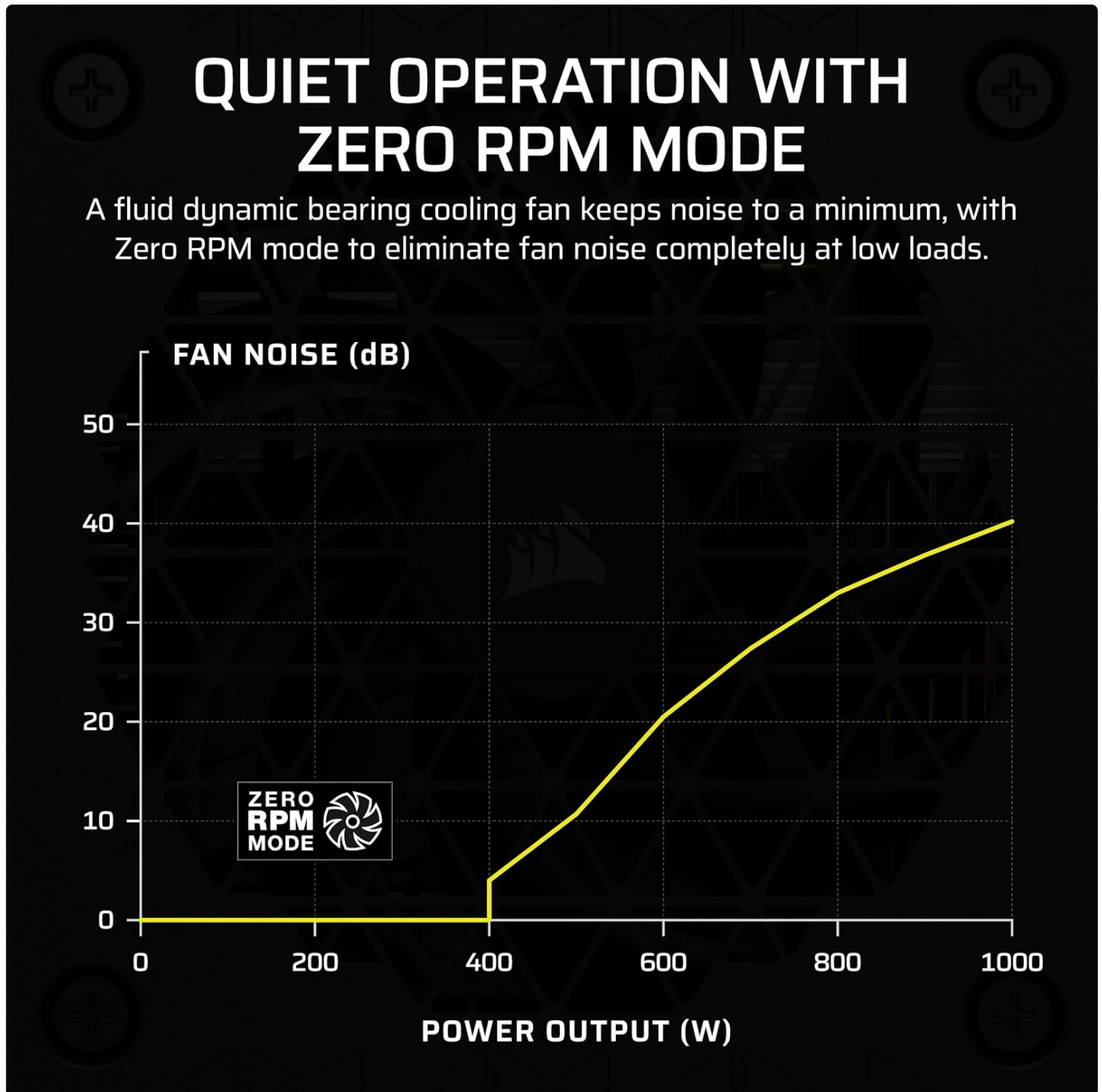


Image: Graph illustrating the fan noise levels (dB) relative to the power output (W), showing the Zero RPM Mode at lower loads.

6. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the power supply's fan grille and vents using compressed air. Ensure the power supply is turned off and unplugged before cleaning.
- **Cable Inspection:** Regularly check all modular cable connections to ensure they are secure and free from damage.
- **Environmental Control:** Maintain a clean, dust-free, and well-ventilated environment for your PC to prevent

overheating and dust buildup within the power supply.

Note: The power supply unit is a sealed component. Do not attempt to open or service the unit yourself, as this will void the warranty and poses a risk of electric shock.

7. TROUBLESHOOTING

If you encounter issues with your CORSAIR SF1000 power supply, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
System does not power on.	<ul style="list-style-type: none">• Power switch off.• Loose AC power cord.• Loose internal cable connections.• Faulty wall outlet/surge protector.	<ul style="list-style-type: none">• Ensure PSU switch is 'ON' (I).• Check AC power cord connection at PSU and wall.• Verify all modular cables are securely seated.• Try a different wall outlet or bypass surge protector.
System powers on but shuts down immediately.	<ul style="list-style-type: none">• Overload or short circuit.• Overheating.• Loose connections.	<ul style="list-style-type: none">• Disconnect non-essential components to test.• Ensure proper case ventilation.• Re-check all cable connections.
Fan is not spinning.	<ul style="list-style-type: none">• Zero RPM Mode active.• Dust buildup.	<ul style="list-style-type: none">• This is normal at low loads. The fan will spin up under higher loads.• Clean fan grille with compressed air.

If problems persist after following these steps, please contact CORSAIR Customer Support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the CORSAIR SF1000 Power Supply:

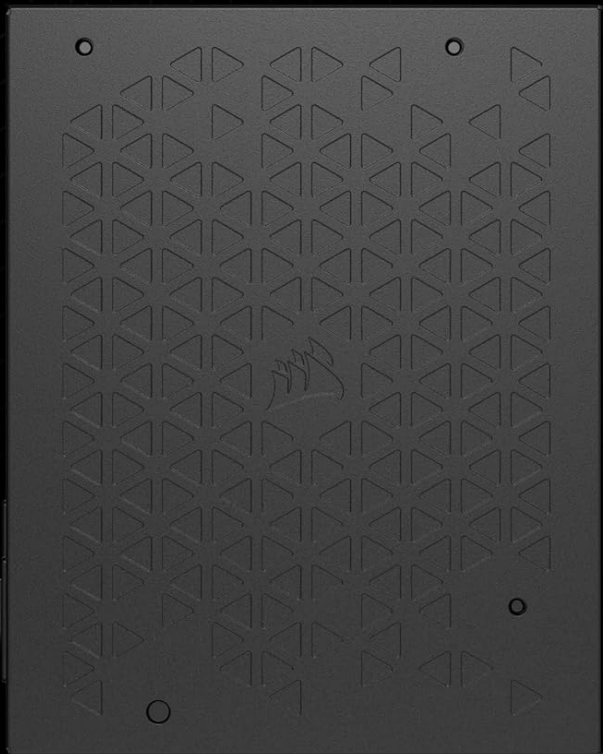
Feature	Detail
Model Name	SF1000
Item Model Number	CP-9020257-NA
Form Factor	SFX
Output Wattage	1000 Watts
80 PLUS Certification	Platinum
ATX Standard	ATX 3.1 Compliant

Feature	Detail
PCIe Standard	PCIe 5.1 Ready
Cooling Method	92mm PWM Fan with Zero RPM Mode
Capacitors	105°C Rated Japanese Capacitors
Product Dimensions (L x W x H)	125mm x 100mm x 63.5mm (4.92 x 3.94 x 2.5 inches)
Item Weight	1.05 kg (2.31 pounds)
Modular Cables	Fully Modular, Type-5 Micro-Fit Connectors

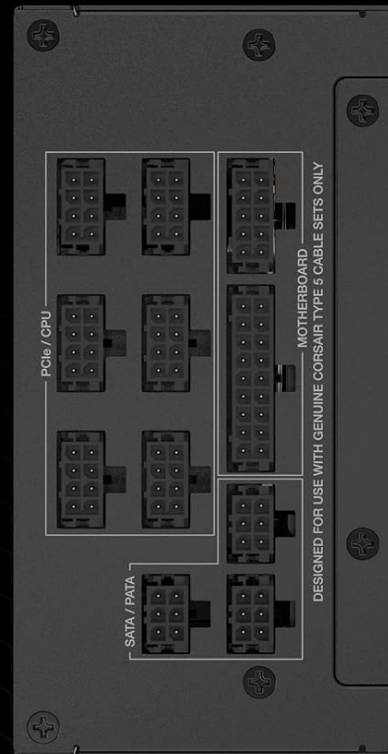
SFX FORM-FACTOR

Full-size performance in a compact package,
perfect for small-form-factor builds.

100mm



63.5mm



125mm

Image: Diagram showing the compact SFX form factor dimensions of the SF1000 power supply.

9. WARRANTY AND SUPPORT

The CORSAIR SF1000 Power Supply comes with a comprehensive **seven-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use.

For technical support, warranty claims, or additional information, please visit the official CORSAIR support website:

[Visit CORSAIR Support](#)

Please have your product model number (CP-9020257-NA) and proof of purchase ready when contacting support.