

Corsair SF750

CORSAIR SF750 (2024) SFX Power Supply Instruction Manual

Brand: Corsair | Model: SF750 (2024)

1. INTRODUCTION

The CORSAIR SF750 (2024) is an 80 PLUS Platinum-rated SFX power supply designed for high-performance small form factor (SFF) PCs. It is compliant with the ATX 3.1 power standard and PCIe 5.1 ready, ensuring compatibility with modern components. This power supply features a fully modular design with Type-5 Micro-Fit PSU connectors for flexible cabling and a 92mm PWM cooling fan with Zero RPM Mode for quiet operation at low loads. Built with 105°C rated Japanese capacitors, it offers unwavering power and reliability. An SFX-to-ATX bracket is included for installation in larger cases.

2. KEY FEATURES

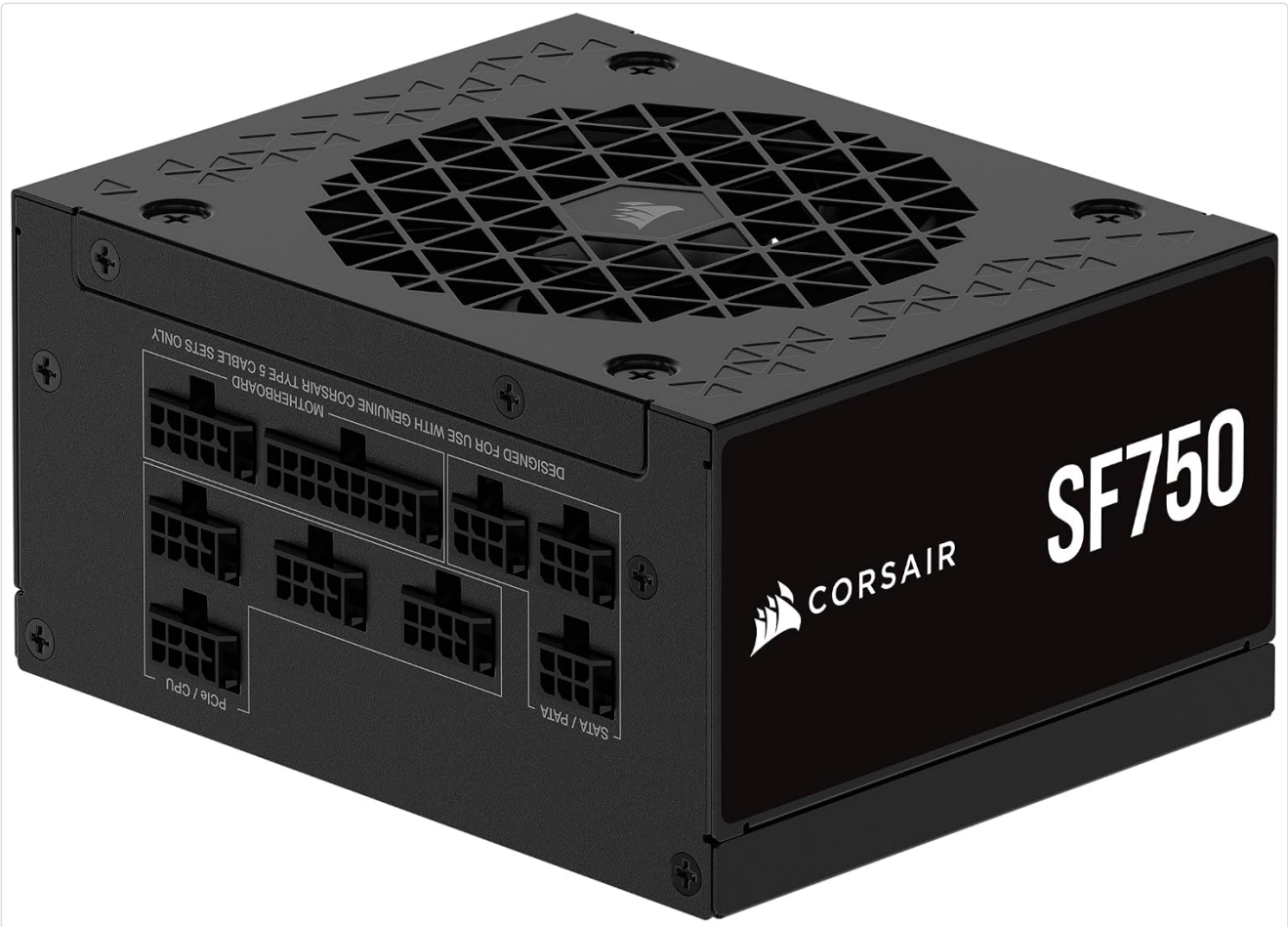
- **80 PLUS Platinum Rated SFX Power:** Delivers high-wattage Platinum-rated power in a compact SFX form-factor.
- **ATX 3.1 Compliant & PCIe 5.1 Ready:** Supports the PCIe Gen 5.1 platform and resists transient power spikes.
- **Fully Modular, Type-5 Micro-Fit PSU Connectors:** Offers flexible cabling for tidy cable management and compatibility in small cases.
- **92mm PWM Cooling Fan:** Provides powerful cooling with low-noise operation, featuring a fluid dynamic bearing.
- **Zero RPM Mode:** Eliminates fan noise completely at low loads for silent operation.
- **105°C Rated Japanese Capacitors:** Ensures unwavering power and reliability under high-stress conditions.

3. PACKAGE CONTENTS

Verify that all the following items are included in your CORSAIR SF750 (2024) package:

- CORSAIR SF750 (2024) SFX Power Supply Unit
- Fully Modular Type-5 Micro-Fit Cable Set (including 24-pin ATX, ATX 12V/EPS12V, 12V-2x6, PCIe, SATA, PATA cables)

- SFX-to-ATX Bracket
- Mounting Screws
- AC Power Cord
- User Manual and Warranty Information



The CORSAIR SF750 (2024) SFX Power Supply, showcasing its compact design and branding.

4. SETUP AND INSTALLATION

4.1 Safety Precautions

- Always disconnect the AC power cord from the wall outlet before installing or removing the power supply.
- Ensure your system is completely powered off and unplugged before handling any internal components.
- Avoid touching internal components of the power supply when it is connected to power.
- Use proper anti-static precautions to prevent damage to components.

4.2 Preparing for Installation

- Gather necessary tools: Phillips head screwdriver, zip ties or Velcro straps for cable management.
- Ensure your PC case supports an SFX power supply. If installing in an ATX case, use the included SFX-to-ATX bracket.

4.3 Physical Installation

1. **Mount the Power Supply:** Secure the SF750 into the designated SFX power supply bay in your PC case using the provided screws. If using an ATX case, attach the SFX-to-ATX bracket to the PSU first, then mount it into the ATX power supply bay.

2. **Connect Motherboard Cables:** Connect the 24-pin ATX cable and the 8-pin (4+4) ATX 12V/EPS12V CPU power cable to your motherboard.
3. **Connect GPU Cables:** For modern graphics cards, use the 12V-2x6 (12+4-pin) cable. For older or less power-intensive GPUs, use the 6+2-pin PCIe cables. Connect these to your graphics card and the corresponding ports on the PSU.
4. **Connect Peripheral Cables:** Attach SATA cables for storage drives (SSDs, HDDs) and PATA cables for older peripherals if needed. Connect the other end of these cables to the peripheral and the PSU.
5. **Cable Management:** Utilize the fully modular design to connect only the necessary cables. Route cables neatly behind the motherboard tray or in designated cable management channels to improve airflow and aesthetics.

CORSAIR SF SERIES SF750 PLATINUM POWER SUPPLY

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

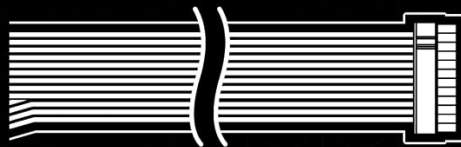


The SF750 power supply with its fully modular cables connected, ready for installation.

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)



2x PCIe (6+2-pin)



1x 4 SATA (Straight)



1x 4 SATA (Right)



1x 4 PATA (4-pin)



A detailed diagram of the fully modular Type-5 Micro-Fit connectors included with the SF750, showing various cable types like 24-pin ATX, ATX 12V/EPS12V, 12V-2x6, PCIe, SATA, and PATA.

This video demonstrates the unboxing and modular cable management features of a similar SFX power supply, illustrating how cables connect to the unit for a clean build.

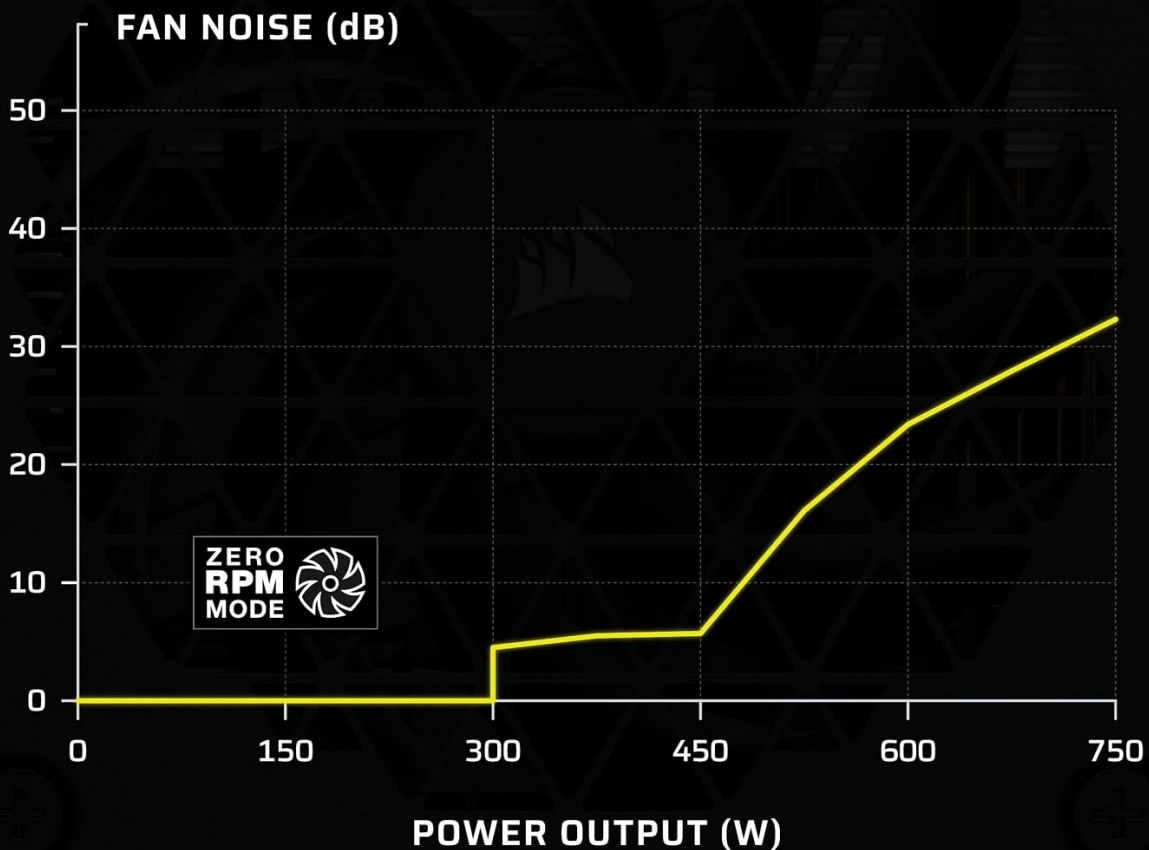
5. OPERATION

The CORSAIR SF750 (2024) is designed for efficient and quiet operation. Once installed and connected, ensure the power switch on the back of the PSU is in the 'ON' position before powering on your computer.

- **Zero RPM Fan Mode:** The 92mm PWM cooling fan will remain off at low to moderate loads, providing silent operation. The fan will automatically activate when the power supply reaches a certain temperature or load threshold to maintain optimal cooling.
- **Power Efficiency:** As an 80 PLUS Platinum certified unit, the SF750 delivers high power efficiency, reducing heat generation and operating costs.

QUIET OPERATION WITH ZERO RPM MODE

A fluid dynamic bearing cooling fan keeps noise to a minimum, with Zero RPM mode to eliminate fan noise completely at low loads.



A graph illustrating the fan noise levels of the SF750 power supply across different power outputs, highlighting its Zero RPM mode for silent operation at low loads.

6. MAINTENANCE

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

- **Regular Cleaning:** Periodically clean the exterior of the power supply and its fan grille to prevent dust buildup, which can impede airflow and reduce cooling efficiency. Use compressed air to gently remove dust.
- **Cable Inspection:** Occasionally check all connected cables to ensure they are securely seated and free from damage.
- **Environmental Conditions:** Ensure your PC operates in a well-ventilated area with stable ambient temperatures to prevent overheating.

7. TROUBLESHOOTING

If you encounter issues with your power supply, consider the following troubleshooting steps:

- **No Power:**
 - Ensure the AC power cord is securely connected to both the power supply and a working wall outlet.
 - Check that the power switch on the back of the PSU is in the 'ON' position.
 - Verify all modular cables are firmly connected to both the PSU and the respective components (motherboard, GPU, drives).
- **System Instability/Crashes:**
 - Ensure your system's power requirements do not exceed the SF750's 750W capacity.
 - Check for proper ventilation within your PC case to prevent overheating of components, including the PSU.
 - If issues persist, consider testing components individually or with a different power supply if available.
- **Fan Not Spinning:**
 - The SF750 features Zero RPM Mode, meaning the fan will not spin at low loads. This is normal operation. The fan will activate automatically under higher loads or temperatures.
 - If the fan does not spin even under heavy load, ensure no obstructions are blocking the fan blades.

A tutorial demonstrating how to update a motherboard's BIOS using a USB drive, a common step for resolving system compatibility or stability issues.

8. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Corsair
Series	SF750
Model Number	CP-9020284-NA
Form Factor	SFX
Wattage	750 Watts
80 PLUS Certification	Platinum
ATX Standard	ATX 3.1 Compliant
PCIe Support	PCIe 5.1 Ready
Cooling Method	Fan-based (PWM-controlled, 92mm)
Fan Mode	Zero RPM Mode at low loads
Capacitors	105°C Rated Japanese Capacitors
Modularity	Fully Modular, Type-5 Micro-Fit Connectors
Color	Black
Item Weight	2.09 pounds (approx. 0.95 kg)
Product Dimensions (LxWxH)	4.92 x 3.94 x 2.5 inches (approx. 125 x 100 x 63.5 mm)

SFX FORM-FACTOR

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

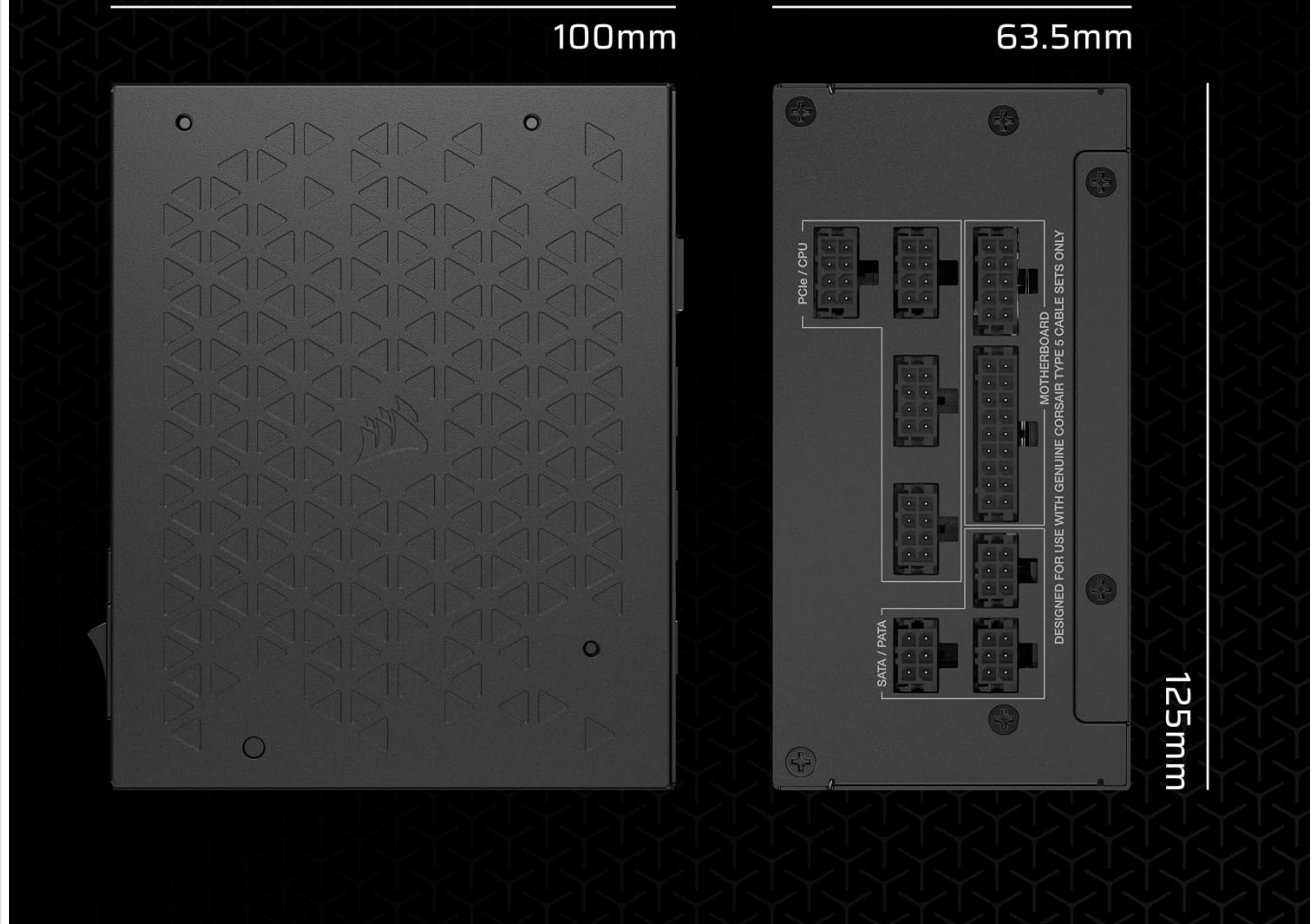


Diagram showing the compact dimensions of the SF750 power supply (125mm x 100mm x 63.5mm), ideal for small form factor builds.

9. WARRANTY AND SUPPORT

The CORSAIR SF750 (2024) SFX Power Supply comes with a seven-year warranty, ensuring long-term confidence in your purchase. For technical support, warranty claims, or additional product information, please visit the official Corsair website or contact their customer service department.

Online Support: www.corsair.com/support

Product Registration: Register your product online to receive the latest updates and support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question