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Corsair RM750

CORSAIR RM Series RM750 Power Supply User Manual

Model: RM750 (CP-9020231-NA)

INTRODUCTION

The CORSAIR RM Series RM750 is a fully modular, ultra-low noise ATX power supply designed to deliver consistent and efficient power to your personal computer. Featuring 80 PLUS Gold certification, it ensures high efficiency, reduced power consumption, and cooler operation. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your RM750 power supply.

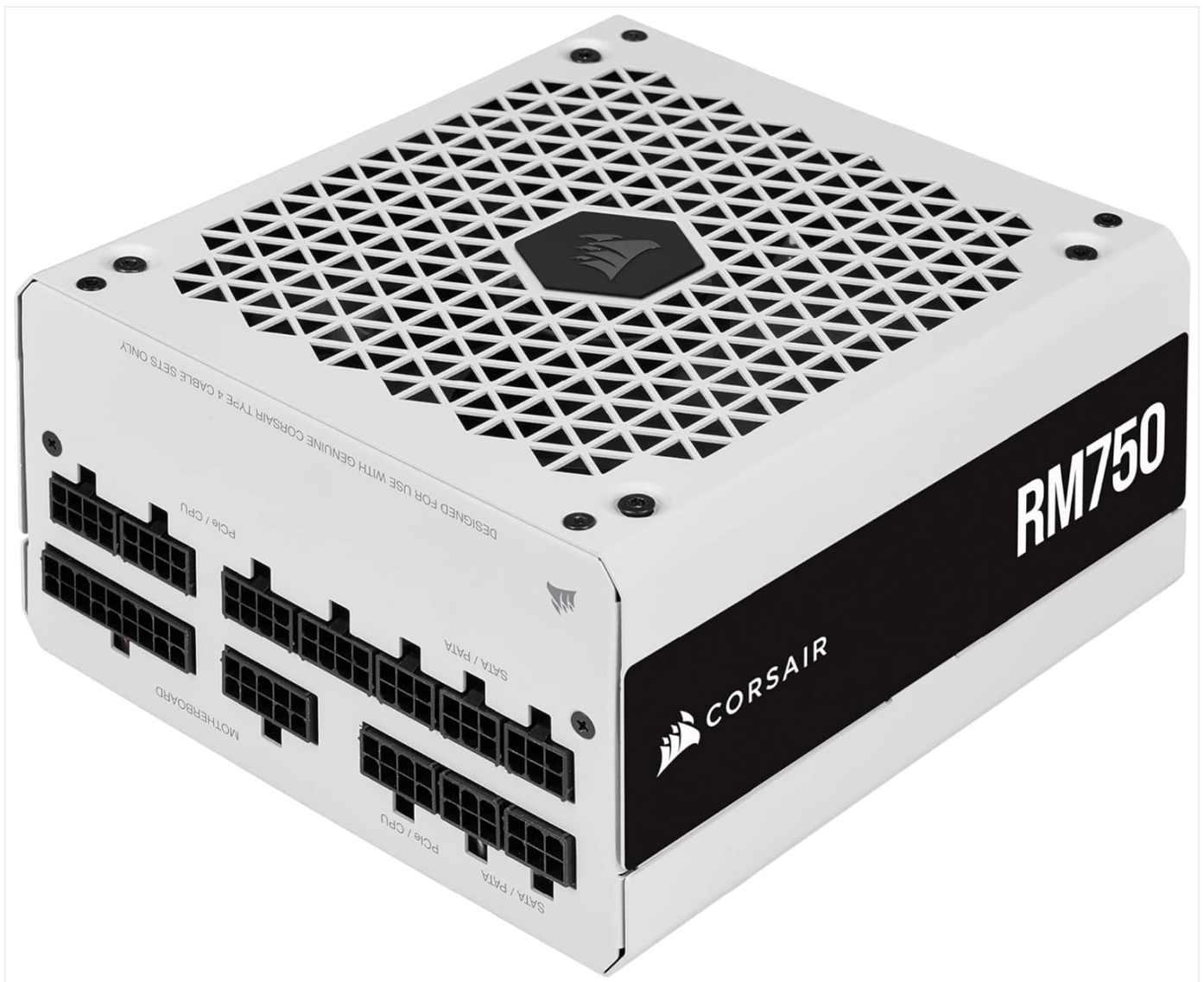


Figure 1: CORSAIR RM750 Power Supply Overview

This image displays the CORSAIR RM750 power supply from a top-down perspective, highlighting its modular cable connections and the distinctive fan grille design. The white casing and black accents are clearly visible.

KEY FEATURES

- **Fully Modular Cables:** Allows connection of only necessary cables, simplifying cable management and improving airflow within your PC case.
- **Triple EPS12V Connectors:** Ensures broad compatibility with modern graphics cards and motherboards, supporting demanding PC configurations.
- **Tuned for Low-Noise Operation:** Equipped with a 140mm rifle bearing fan and a specially calculated fan curve to minimize noise, even under heavy loads.
- **Zero RPM Fan Mode:** The cooling fan remains off at low and medium loads, providing near-silent operation until higher power demands require cooling.
- **105°C-Rated Capacitors:** Utilizes industrial-grade capacitors for superb electrical performance, stability, and long-term reliability.
- **80 PLUS Gold Certified:** Achieves up to 90% efficiency, leading to lower power consumption, reduced heat generation, and quieter operation.

CORSAIR RM SERIES POWER SUPPLIES

Fully modular and 80 PLUS Gold certified for excellent power efficiency and low-noise operation.

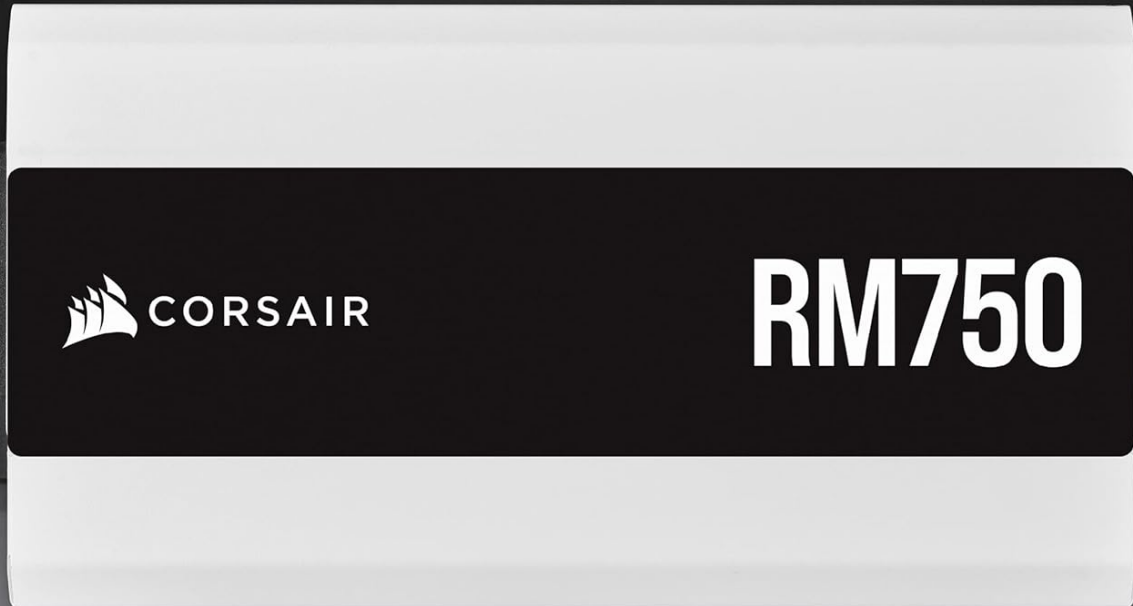


Figure 2: RM Series Key Features

This image illustrates the core benefits of the CORSAIR RM Series, emphasizing its fully modular design and 80 PLUS Gold efficiency for optimal power delivery and quiet performance.

SETUP AND INSTALLATION

1. Unpacking and Inspection

Carefully remove the power supply and all accessories from the packaging. Inspect for any signs of damage during transit. The package should include the RM750 power supply, a power cord, mounting screws, and a set of modular cables.



Figure 3: Included Modular Cables

This image shows the CORSAIR RM750 power supply alongside its comprehensive set of white modular cables, detailing the quantity and type of each connector provided for various PC components.

2. Mounting the Power Supply

1. Ensure your PC is powered off and unplugged from the wall outlet.
2. Locate the power supply mounting area in your PC case, typically at the bottom rear.
3. Slide the RM750 into the designated slot, aligning the screw holes on the power supply with those on the case.
4. Secure the power supply using the provided mounting screws.

3. Connecting Modular Cables

The RM750 is fully modular, allowing you to connect only the cables required for your system. This reduces clutter and

improves airflow.

- **24-Pin ATX Cable:** Connect to your motherboard's main power connector.
- **EPS/ATX 12V (CPU) Cables:** Connect one or more to your motherboard's CPU power connectors. The RM750 includes triple EPS12V connectors for high-end motherboards.
- **PCIe (GPU) Cables:** Connect to your graphics card(s). The RM750 provides four PCIe 8-pin connectors.
- **SATA Cables:** Connect to SATA devices such as SSDs, HDDs, and optical drives.
- **PATA (Molex) Cables:** Connect to older peripherals or case fans if needed.

Ensure all connections are firm and properly seated. Refer to your motherboard and component manuals for specific power requirements and connection points.

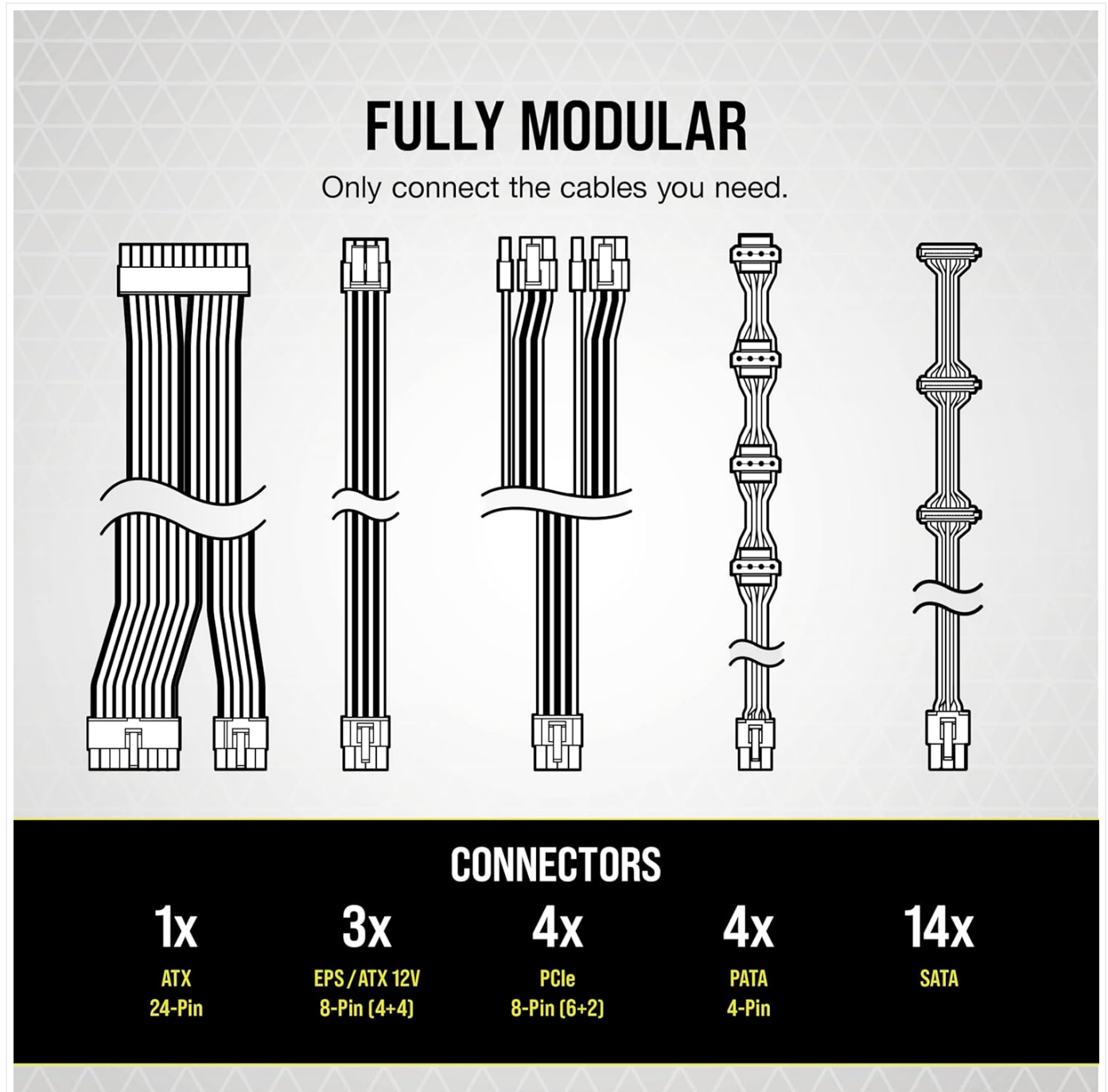


Figure 4: Fully Modular Cable Types

This diagram visually represents the different types of fully modular cables included with the RM750, such as ATX, EPS/ATX 12V, PCIe, PATA, and SATA, along with their respective quantities.

OPERATING INSTRUCTIONS

1. Initial Power On

1. After all components are connected, ensure the power supply's ON/OFF switch (located on the rear of the unit) is in the OFF position.
2. Connect the power cord to the power supply and then to a wall outlet or surge protector.
3. Flip the power supply's ON/OFF switch to the ON position.
4. Press the power button on your PC case to start your system.

2. Zero RPM Fan Mode

The RM750 features a Zero RPM Fan Mode. This means the power supply fan will not spin at low to medium loads, providing silent operation. The fan will automatically activate when the power supply reaches a certain temperature or load threshold to maintain optimal cooling.

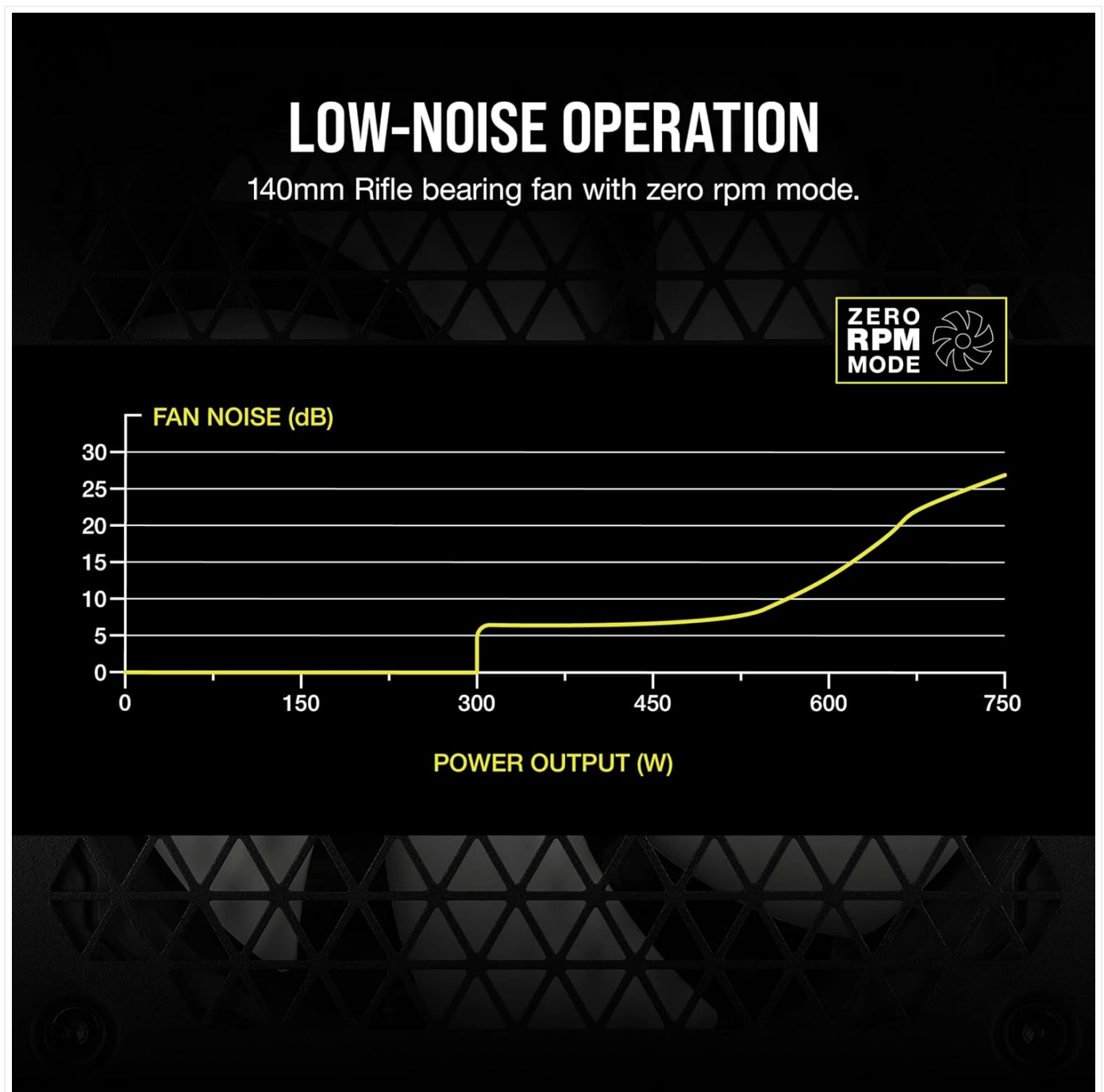


Figure 5: Low-Noise Operation Curve

This graph demonstrates the RM750's fan noise levels across different power outputs, clearly showing the "Zero RPM Mode" where the fan remains off for silent operation at lower system loads.

MAINTENANCE

The CORSAIR RM750 power supply is designed for long-term reliability with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Dust Removal:** Periodically clean dust from the power supply's fan grille and vents using compressed air. Ensure the PC is powered off and unplugged before cleaning. Dust buildup can impede airflow and reduce cooling efficiency.
- **Cable Connections:** Occasionally check that all modular cables are securely seated in both the power supply and the components. Loose connections can lead to instability or component damage.
- **Environment:** Ensure the PC operates in a well-ventilated area with adequate space around the case for proper airflow. Avoid placing the PC in enclosed spaces that can trap heat.

TROUBLESHOOTING

If you encounter issues with your CORSAIR RM750 power supply, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
PC does not power on.	Power switch off, loose cables, faulty power outlet.	Ensure PSU ON/OFF switch is ON. Check all modular cable connections. Verify power cord is securely plugged into PSU and wall outlet. Test the wall outlet with another device.
System instability or random shutdowns.	Overload, faulty component, insufficient power.	Ensure total system wattage does not exceed 750W. Check for loose connections to components. Monitor component temperatures. If possible, test components individually.
Fan not spinning (Zero RPM mode).	Normal operation at low loads.	This is expected behavior. The fan will spin up under higher loads or temperatures. If the fan never spins even under heavy load, contact support.

If these steps do not resolve the issue, please contact CORSAIR customer support for further assistance.

SPECIFICATIONS

Attribute	Detail
Brand	Corsair
Model Name	RM750
Item Model Number	CP-9020231-NA

Attribute	Detail
Wattage	750 Watts
80 PLUS Certification	Gold (Up to 90% efficiency)
Form Factor	ATX / EPS12V
Modularity	Fully Modular
Fan Size	140mm Rifle Bearing
Fan Mode	Zero RPM Mode
Capacitor Rating	105°C Industrial-Grade
Color	White
Product Dimensions (LxWxH)	6.3 x 5.91 x 3.39 inches (160mm x 150mm x 86mm)
Item Weight	3.45 pounds (1.57 kg)
Compatible Devices	Personal Computer

PRODUCT DIMENSIONS

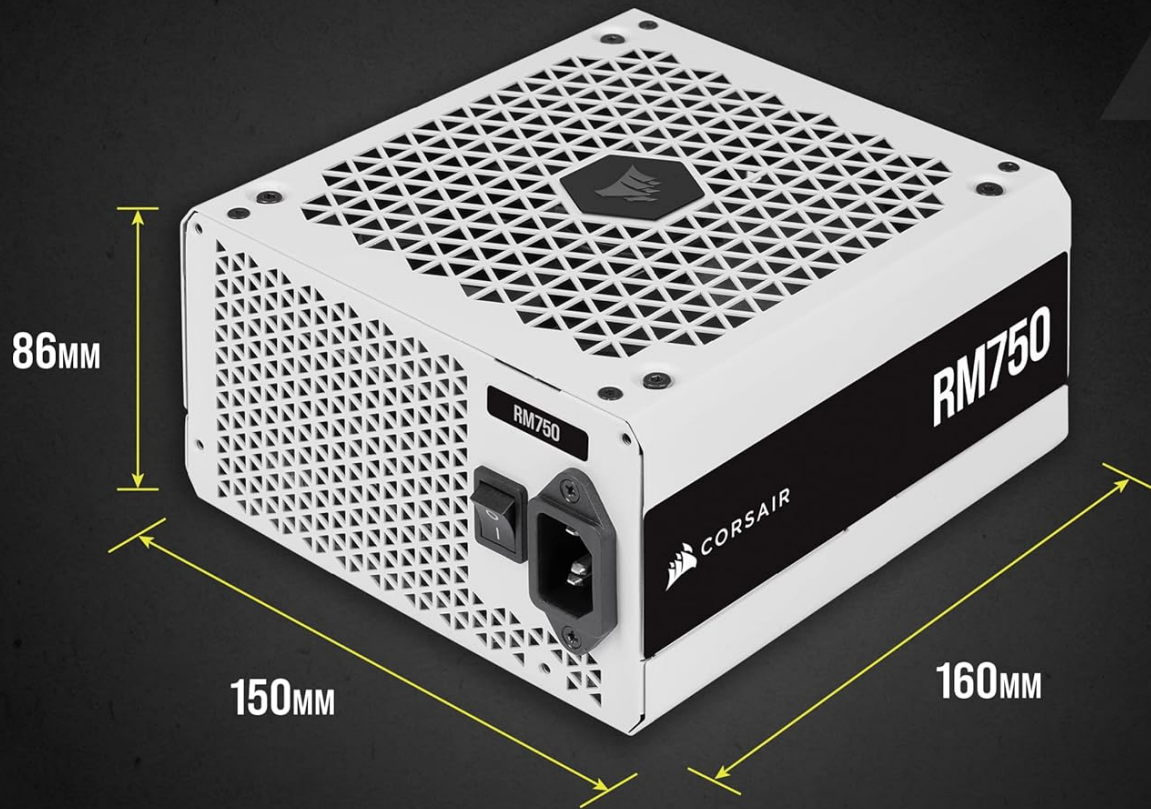


Figure 6: Product Dimensions

This image provides a clear visual representation of the CORSAIR RM750 power supply's physical dimensions, indicating its length, width, and height in millimeters.



Figure 7: Efficiency and Noise Certifications

This image displays the Cybenetics Gold efficiency and A- noise level certifications for the RM750, indicating its performance ratings under both 115V and 230V input voltages.

WARRANTY AND SUPPORT

The CORSAIR RM750 power supply is backed by a **ten-year warranty**, ensuring long-term peace of mind regarding its performance and reliability. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or additional information, please visit the official CORSAIR support website or contact their customer service department. Keep your proof of purchase for warranty validation.

Official CORSAIR Website: www.corsair.com

