Corsair CX430M

Corsair CX430M Semi-Modular Power Supply User Manual

1. Introduction and Overview

The Corsair CX430M is a semi-modular power supply unit designed for basic system builds and desktop PC computer upgrades. It offers high reliability, low noise operation, and simplified installation due to its modular cabling system. This power supply is 80 PLUS Bronze certified, indicating efficient power delivery which results in less excess heat, reduced noise, and lower power consumption.

The unit features a large-diameter, thermally controlled fan that operates quietly during idle periods and effectively dissipates heat even under heavy system loads. Its matte black finish, black-sleeved cables, and black connectors provide a clean and integrated aesthetic for your PC build.

Image: Corsair CX430M Semi-Modular Power Supply unit.

2. Key Features

- **Modular Cabling System:** Allows connection of only necessary cables, reducing clutter and improving airflow within the PC case.
- **Reliable and Compatible:** Built and tested to rigorous standards for trouble-free installation and stable operation.
- **80 PLUS Bronze Certified Efficiency:** Provides up to 85% energy efficiency, minimizing heat generation and energy costs.
- **Active Power Factor Correction (PFC):** Features 0.99 Active PFC for clean and stable power delivery.
- **Universal AC Input:** Supports input voltages from 90-264V.
- **Dedicated Single +12V Rail:** Offers maximum compatibility with modern components.
- **Thermally Controlled Fan:** A large-diameter fan ensures quiet operation at idle and effective cooling under load.

3. Setup and Installation

Proper installation of your power supply is essential for system stability and safety. Follow these general

steps for installing the Corsair CX430M:

1. **Preparation:** Before beginning, ensure your computer is completely powered off and unplugged from the wall outlet. It is recommended to take photos of existing cable connections for reference.

2. **Remove Old Power Supply (if applicable):** Disconnect all power connectors from your drives, motherboard, graphics card, and case fans. Unscrew the old power supply from the PC case and carefully remove it.

3. **Position New Power Supply:** Place the Corsair CX430M into the power supply bay of your PC case. Secure it using the provided screws. Consider the orientation of the fan; typically, it faces downwards if your case has a bottom vent, or upwards if not, to optimize airflow.

4. **Connect Essential Cables:** The main motherboard (20+4 pin) and CPU (4+4 pin EPS) power connectors are hard-wired. Connect these to their respective ports on your motherboard.

5. **Modular Cable Connections:** Identify the peripheral power cables needed for your specific components (e.g., SATA for hard drives/SSDs, PCI-E for graphics cards). Connect these modular cables to the appropriate ports on the power supply unit first, then route and connect them to your components. This semi-modular design allows you to use only the cables required, reducing internal clutter.

6. **Final Checks:** Double-check all connections to ensure they are secure. Ensure no cables are obstructing fans or airflow.

7. **Power On:** Plug the power cord into the power supply and then into a wall outlet. Flip the power switch on the back of the power supply to the 'I' (On) position.

For a visual guide on power supply installation and overview, please refer to the videos below:

Video: Product Overview of a Power Supply. This video provides a general overview of power supply features and installation considerations.

Video: Product Summary of a Power Supply. This video offers a brief summary of power supply functionalities.

4. OPERATING INSTRUCTIONS

Once correctly installed, the Corsair CX430M operates automatically. The power supply delivers stable and efficient power to your system components. The thermally controlled fan adjusts its speed based on the internal temperature of the power supply, ensuring optimal cooling while minimizing noise levels.

Ensure the power switch on the back of the unit is in the 'I' (On) position for the system to receive power. To completely power down the system, shut down the operating system, then flip the power switch on the PSU to 'O' (Off) and unplug the power cord from the wall outlet.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Corsair CX430M power supply, periodic maintenance is recommended:

- **Dust Removal:** Regularly clean the exterior of the power supply and the fan intake/exhaust vents to prevent dust buildup. Dust can impede airflow and lead to overheating. Use compressed air to gently clear dust from the fan and internal components.

- **Cable Management:** Periodically check that all cables are securely connected and not interfering with airflow or other components.

- **Environment:** Ensure the PC operates in a well-ventilated area to prevent excessive heat buildup around the power supply.

6. TROUBLESHOOTING

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

- **No Power:** Verify that the power cord is securely plugged into both the power supply and the wall outlet. Ensure the power switch on the PSU is in the 'I' (On) position. Check the wall outlet with another device to confirm it has power.

- **System Instability/Random Shutdowns:** This could indicate insufficient or unstable power. Double-check all internal power connections (motherboard, CPU, graphics card, drives). Ensure your system's power requirements do not exceed the 430W capacity of the CX430M.

- **Excessive Noise:** While the CX430M is designed for low noise, unusual or excessive fan noise might indicate dust buildup or a fan issue. Refer to the maintenance section for cleaning.

- **Component Issues:** If specific components are not receiving power, check their individual power connections from the PSU.

If problems persist after basic troubleshooting, contact Corsair technical support.

7. SPECIFICATIONS

Feature	Specification
Brand	Corsair
Model	CX430M (CP-9020058-NA)
Output Wattage	430 Watts
Efficiency Certification	80 PLUS Bronze
Form Factor	ATX12V / EPS12V
Cooling Method	Air (Thermally Controlled Fan)
Dimensions (L x W x H)	11.4 x 8.5 x 5.1 inches (289.6 x 215.9 x 129.5 mm)
Weight	7.8 Pounds (3.54 kg)
ATX Connector	1
EPS Connector	1
PCI-E Connectors	1
4 Pin Peripheral Connectors	3
SATA Connectors	4
Floppy Connectors	1

8. WARRANTY AND SUPPORT

The Corsair CX430M Power Supply comes with a three-year warranty, ensuring peace of mind regarding product quality and performance. Corsair also provides lifetime access to its technical support and customer service.

For technical assistance or warranty claims, please contact Corsair Customer Service at **1-888-222-4346 opt. 1**.

Legal Disclaimer: No refunds.

Related Documents - CX430M

	[Corsair HXi Series: High Performance ATX Power Supply Units	Manual](#) Comprehensive guide to Corsair HXi Series high-performance ATX power supply units. Features 80 PLUS Platinum efficiency, fully modular design, quiet operation, and Corsair Link compatibility. Includes installation, safety, and specifications for HX1200i, HX1000i, HX850i, HX750i.
	[CORSAIR RMx Series High Performance ATX Power Supply](#) Detailed specifications, features, and installation guide for CORSAIR RMx Series High Performance ATX Power Supplies, including models RM550x, RM650x, RM750x, RM850x, and RM1000x, featuring 80 PLUS Gold efficiency and a 140mm ML fan.
	[CORSAIR CX-F RGB Series ATX Power Supply User Manual](#) This document provides an introduction to the CORSAIR CX-F RGB Series ATX Power Supply, detailing its features, specifications, and installation instructions. It covers models CX550F, CX650F, and CX750F, highlighting their 80 PLUS Bronze efficiency, customizable RGB lighting, and safety features.
	[Corsair RMx Series High Performance ATX Power Supply User Manual](#) User manual for Corsair RMx Series high-performance ATX power supplies, detailing specifications, installation, safety, and features like 80 PLUS Gold efficiency and Zero RPM mode.
	[Corsair SF-L Series SF850L & SF1000L SFX-L Power Supply Manual](#) Comprehensive manual for Corsair SF-L Series SF850L and SF1000L SFX-L fully modular power supplies, covering safety features, technical specifications, cable information, and installation instructions.
	[Corsair RM Series Fully Modular ATX Power Supply User Guide](#) This guide provides detailed information and installation instructions for the Corsair RM Series fully modular ATX power supplies, including models RM650, RM750, and RM850. It covers safety features, technical specifications, efficiency curves, fan noise curves, and cable information.