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› CORSAIR RM1000e (2025) Power Supply User Manual

## Corsair CP-9020297-NA

# CORSAIR RM1000e (2025) Power Supply User Manual

Brand: Corsair | Model: RM1000e (CP-9020297-NA)

## INTRODUCTION

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The CORSAIR RM1000e (2025) is a fully modular, low-noise ATX power supply designed to deliver reliable and efficient power to your PC. Compliant with ATX 3.1 and PCIe 5.1 standards, it features a native 12V-2x6 cable and is built with industrial-grade, 105°C-rated capacitors for superb electrical performance. Its compact design and quiet operation make it suitable for a wide range of modern PC builds.



Image: The CORSAIR RM1000e (2025) power supply, showcasing its modular connectors and sleek black design.

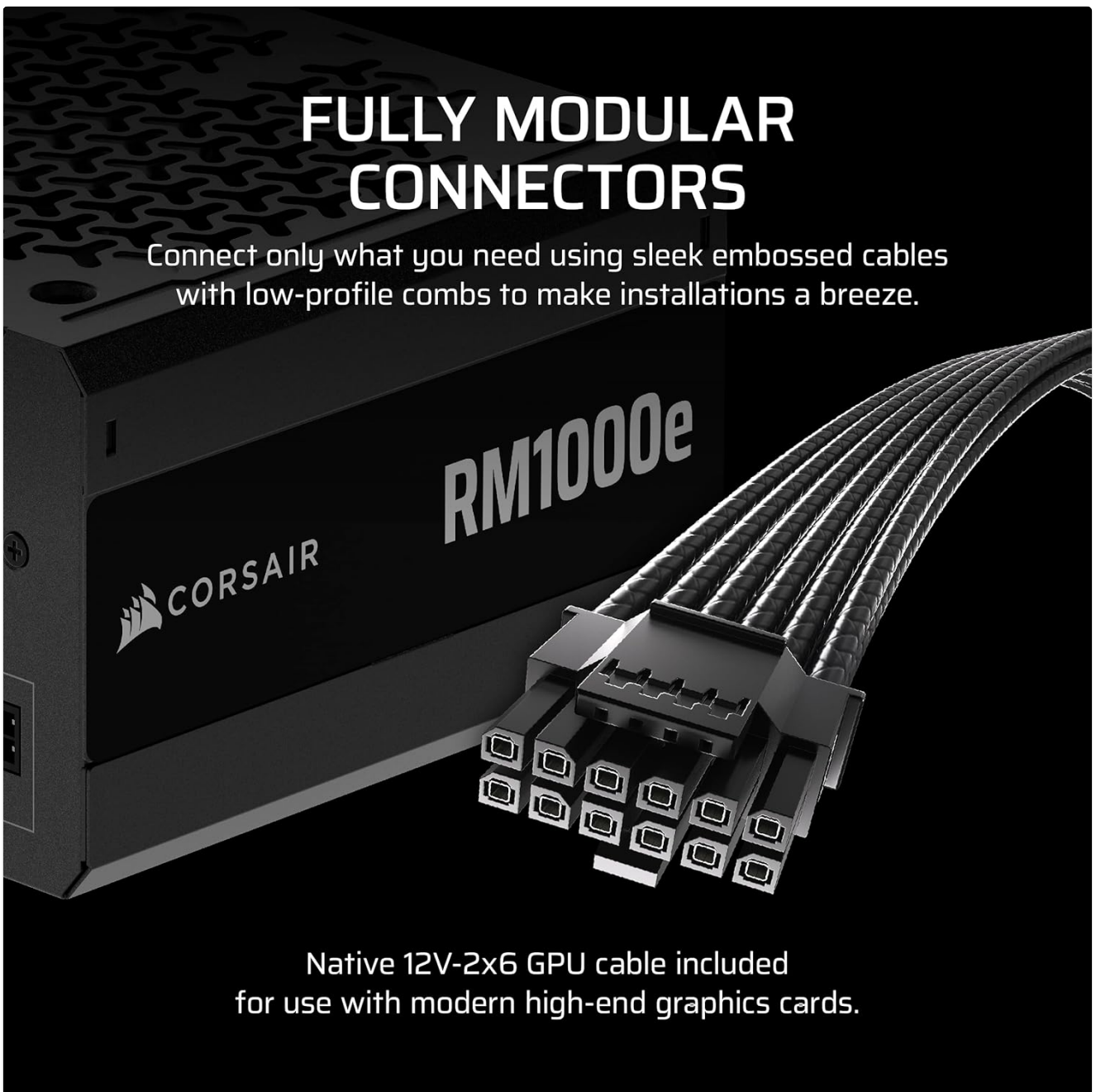
## KEY FEATURES

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- **Fully Modular Design:** Connect only the cables your system requires, simplifying cable management and improving airflow within your PC case.

# FULLY MODULAR CONNECTORS

Connect only what you need using sleek embossed cables with low-profile combs to make installations a breeze.



Native 12V-2x6 GPU cable included for use with modern high-end graphics cards.

Image: Close-up of the fully modular connectors on the CORSAIR RM1000e, illustrating the ease of connecting only necessary cables.

- **ATX 3.1 & PCIe 5.1 Compliance:** Supports the latest power standards, including a native 12V-2x6 (12+4-pin) connector and cable for modern high-end graphics cards, ensuring stable power delivery and future compatibility.

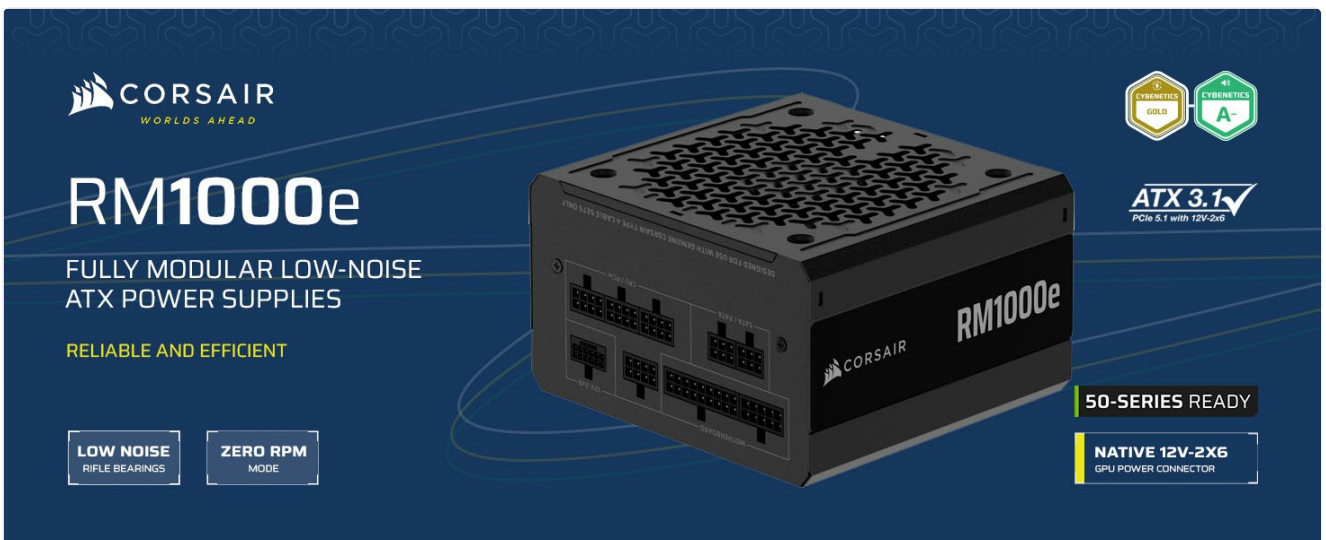
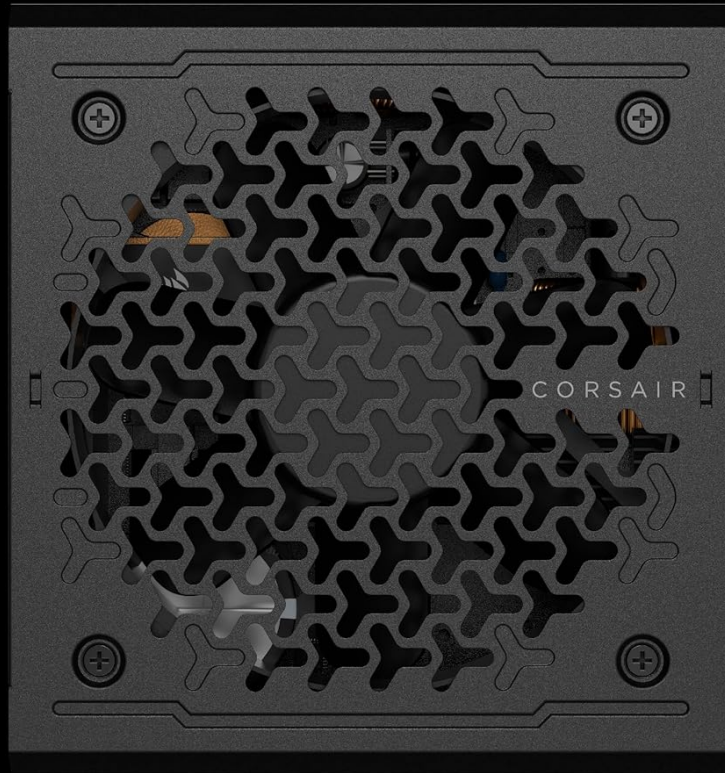


Image: Diagram highlighting ATX 3.1 and PCIe 5.1 compliance, showing the PSU's readiness for next-generation components.

- **Low-Noise Operation:** Equipped with a 120mm rifle bearing fan with a specially calculated fan curve, ensuring minimal noise even under full load. The fan supports Zero RPM Mode, meaning it remains off at low to moderate loads for silent operation.

## TUNED FOR LOW NOISE

A 120mm rifle bearing fan with a specially calculated fan curve keeps fan noise down.



**ZERO  
RPM  
MODE** 

Image: Top view of the power supply, showing the 120mm fan and its patterned grille, indicating its low-noise design.

- **105°C-Rated Capacitors:** Industrial-grade capacitors deliver consistent, reliable power and dependable electrical performance, ensuring long-term stability and durability.

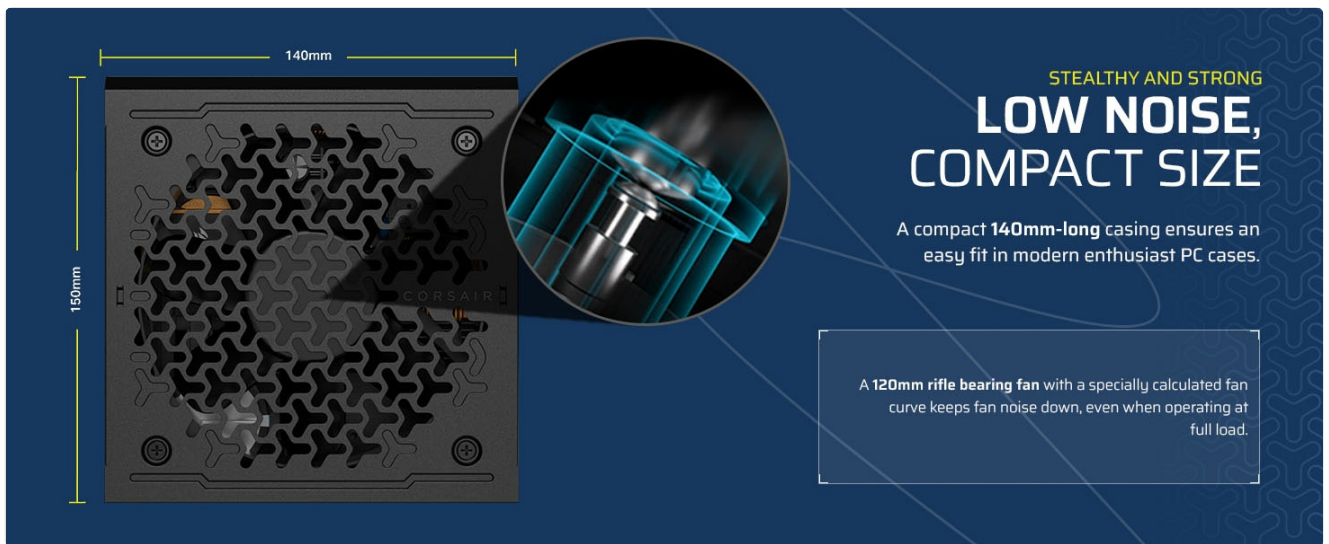


Image: Visual representation of the high-quality 105°C-rated capacitors used in the power supply, emphasizing reliability.

- **Modern Standby Compatible:** Enables extremely fast wake-from-sleep times and improved efficiency at low loads, enhancing overall system responsiveness.
- **Compact 140mm Casing:** Designed to fit easily into nearly any modern PC case, offering flexibility for various build sizes.



Image: Diagram illustrating the compact 140mm length of the power supply, highlighting its compatibility with various PC cases.

## Box Contents

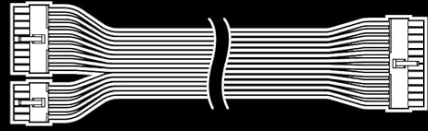
The CORSAIR RM1000e (2025) power supply package includes the following items:

- 1x CORSAIR RM1000e (2025) Power Supply Unit
- 1x 24-pin ATX (24-pin) Connector Cable
- 2x 8-pin ATX 12V/EPS12V (4+4-pin) Connector Cables
- 1x 8-pin PCIe (6+2-pin) Connector Cable
- 1x 600W 12V-2x6 (12+4-pin) Connector Cable
- 1x 12V-2x6 (12+4-pin) to dual 8-pin PCIe (6+2-pin) Cable
- 6x SATA Connectors
- 2x PATA Connectors
- Mounting Screws
- Cable Ties
- User Manual and Safety Information

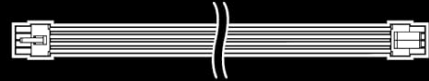
# FULLY MODULAR CABLING

Connect only the cables you need.

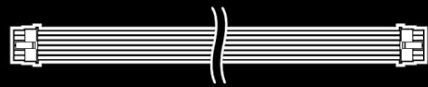
**1x** ATX (24-pin)



**2x** EPS/ATX12V (8-pin 4+4)



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



**1x** 12V-2x6 to Dual (8-pin 6+2)



**2x** PCIe (8-pin 6+2)



**1x** SATA (4 Straight SATA)



**1x** SATA / PATA (2 Straight SATA / 2 Straight PATA)



Image: A visual representation of the various modular cables included with the power supply, ready for connection.

## SETUP INSTRUCTIONS

- 1. Preparation:** Before installation, ensure your PC is completely powered off and unplugged from the wall outlet. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge.
- 2. Mounting the PSU:**
  - Open your PC case and locate the power supply mounting bay, typically at the bottom or top rear of the case.
  - Carefully slide the CORSAIR RM1000e into the bay, ensuring the fan faces the correct direction (usually downwards if your case has a bottom vent, or upwards if not).
  - Secure the PSU to the case using the provided mounting screws.
- 3. Connecting Cables:**
  - **Motherboard Power:** Connect the 24-pin ATX cable to your motherboard's main power connector.
  - **CPU Power:** Connect the 8-pin ATX 12V/EPS12V (4+4-pin) cables to your motherboard's CPU power connectors.

Modern motherboards may require one or two such connections.

- **GPU Power:** For graphics cards requiring a 12V-2x6 connector, use the dedicated 600W 12V-2x6 cable. For other PCIe graphics cards, use the 8-pin PCIe (6+2-pin) cables. Ensure all required power connectors on your GPU are populated.
- **SATA/PATA Devices:** Connect SATA cables to your storage drives (SSDs, HDDs) and PATA cables to older peripherals if needed.

*Note:* Only connect the cables necessary for your system components to minimize cable clutter and improve airflow.

4. **Cable Management:** Route cables neatly behind the motherboard tray or in designated cable management channels to ensure optimal airflow and a clean build. Use the included cable ties to secure bundles.
5. **Final Checks:** Double-check all connections to ensure they are firmly seated. Close your PC case.
6. **Power On:** Plug your PC back into the wall outlet and power it on.



Image: A CORSAIR power supply installed within a PC case, demonstrating proper placement and cable routing.

## OPERATING INFORMATION

- **Zero RPM Fan Mode:** The RM1000e's fan is designed to remain off at low to moderate loads, providing silent operation. The fan will automatically spin up when the power supply reaches a certain temperature threshold or load level to maintain optimal cooling. This is normal operation and indicates efficient thermal management.
- **Modern Standby:** This feature allows your PC to wake from sleep almost instantly and improves power efficiency during low-power states. Ensure your operating system and motherboard support Modern Standby for full functionality.
- **Power Efficiency:** The Cybenetics Gold efficiency rating means the power supply converts a high percentage of AC power into usable DC power, reducing wasted energy and heat generation. This contributes to lower electricity bills and a cooler system.

## MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup. Use compressed air to gently clear dust from the fan blades and internal components. Always unplug the power supply from the wall before cleaning.
- **Airflow:** Ensure your PC case has adequate airflow to prevent heat buildup around the power supply. Keep the area around the PC clear of obstructions.
- **Cable Integrity:** Occasionally inspect cables for any signs of wear, fraying, or damage. Replace any damaged cables

immediately.

## TROUBLESHOOTING

| Problem                               | Possible Cause   | Solution  |
|---------------------------------------|--|---|
| PC does not power on.                 | Power cable not fully connected, PSU switch off, faulty component, insufficient power. | Ensure the power cable is securely plugged into the PSU and wall outlet.<br>Verify the PSU's ON/OFF switch is in the 'ON' position.<br>Check all internal cable connections (24-pin, CPU, GPU).<br>Test with minimal components (motherboard, CPU, one RAM stick) to isolate the issue. |
| PSU fan is not spinning.              | Zero RPM Mode active, low system load.   | This is normal operation. The fan will only spin when the PSU reaches a certain temperature or load. If the system is under heavy load and the fan is still not spinning, contact support.  |
| System crashes or reboots under load. | Insufficient power, overheating, faulty PSU.   | Ensure your PSU wattage is sufficient for all components.<br>Verify proper airflow in your case and clean any dust buildup.<br>Check for loose cable connections.<br>If issues persist, the PSU may be faulty.  |

## SPECIFICATIONS

| Specification          | Value  |
|------------------------|--|
| Model Name             | CORSAIR RM1000e (2025)                           |
| Item Model Number      | CP-9020297-NA                                    |
| Output Wattage         | 1000 Watts                                       |
| Form Factor            | ATX  |
| Efficiency Rating      | Cybenetics Gold                                  |
| Capacitor Rating       | 105°C-Rated                                      |
| Cooling Method         | Air (120mm Rifle Bearing Fan with Zero RPM Mode) |
| Dimensions (L x W x H) | 5.91 x 5.51 x 3.35 inches (150mm x 140mm x 85mm) |
| Weight                 | 3.62 pounds                                      |
| ATX Standard           | ATX 3.1  |
| PCIe Standard          | PCIe 5.1 (with native 12V-2x6 cable)             |

## WARRANTY AND SUPPORT

The CORSAIR RM1000e (2025) Power Supply is backed by a **seven-year warranty**, ensuring long-term reliability and peace of mind. For technical support, troubleshooting assistance, or warranty claims, please visit the official Corsair support website or contact their customer service department.

Official Corsair Support: [www.corsair.com/support](http://www.corsair.com/support)

