Corsair HX1500i

Corsair HX1500i 1500W ATX Power Supply User Manual

Model: HX1500i (CP-9020261-NA)

1. INTRODUCTION

The Corsair HX1500i is a fully modular, ultra-low noise ATX power supply designed to deliver stable and efficient power to high-performance personal computers. It is compliant with the latest ATX 3.1 and PCIe 5.1 standards, making it suitable for modern graphics cards and demanding system configurations. This power supply features 80 PLUS Platinum efficiency, a fluid dynamic bearing fan for quiet operation, and is compatible with CORSAIR iCUE software for advanced monitoring and control.

Image: The Corsair HX1500i 1500W Power Supply, a fully modular unit.

2. SAFETY INFORMATION

- Always disconnect the power supply from the AC outlet before installing or removing any components.

- Do not open the power supply unit. High voltages are present inside, even when disconnected.

- Ensure proper grounding to prevent electrical shock.

- Use only the modular cables provided with your Corsair HX1500i power supply. Using incompatible cables can damage the power supply and connected components.

- Install the power supply in a well-ventilated area, away from heat sources and moisture.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Corsair HX1500i Power Supply Unit

- AC Power Cord

- Modular Cable Set (including 12V-2x6 cable for PCIe 5.1 GPUs)

- Mounting Screws

- Cable Ties

- User Manual and Safety Information

Image: The Corsair HX1500i power supply shown with its full set of modular cables.

4. SETUP AND INSTALLATION

4.1 Physical Installation

1. Ensure your PC case has adequate space for the HX1500i (dimensions: 7.87 x 5.91 x 3.39 inches).

2. Mount the power supply in the designated PSU bay of your PC case using the provided screws. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards if there's a bottom vent, or upwards if not).

4.2 Modular Cabling

Connect only the necessary cables to your components. This reduces clutter and improves airflow within your PC case.

- **Motherboard:** Connect the 24-pin ATX cable to the motherboard.

- **CPU:** Connect the 8-pin (4+4) EPS12V cables to your CPU power connectors.

- **Graphics Card (GPU):** Use the appropriate PCIe (6+2-pin) cables or the dedicated 12V-2x6 (PCIe 5.1) cable for compatible GPUs.

- **Storage Devices:** Connect SATA power cables to SSDs, HDDs, and optical drives.

- **Peripherals:** Use PATA power cables for older peripherals if needed.

- **iCUE Connection:** Connect the included USB Type-C to 10-1 pin cable from the PSU to an available USB 2.0 header on your motherboard for iCUE software functionality.

Image: Rear view of the Corsair HX1500i showing the modular cable connection ports.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- After all connections are secure, plug the AC power cord into the power supply and a wall outlet.

- Flip the power switch on the back of the PSU to the 'ON' position.

- Power on your computer via the case power button.

5.2 CORSAIR iCUE Software Integration

The HX1500i is fully compatible with CORSAIR iCUE software, allowing for advanced monitoring and control

capabilities. Download and install iCUE from the official Corsair website.

- **Real-time Monitoring:** View power input/output, efficiency, temperature, and fan speed.

- **Custom Fan Curves:** Create and apply custom fan speed profiles to optimize cooling and noise levels.

- **Single/Multi-Rail OCP:** Toggle between single-rail and multi-rail overcurrent protection (OCP) modes on-the-fly.
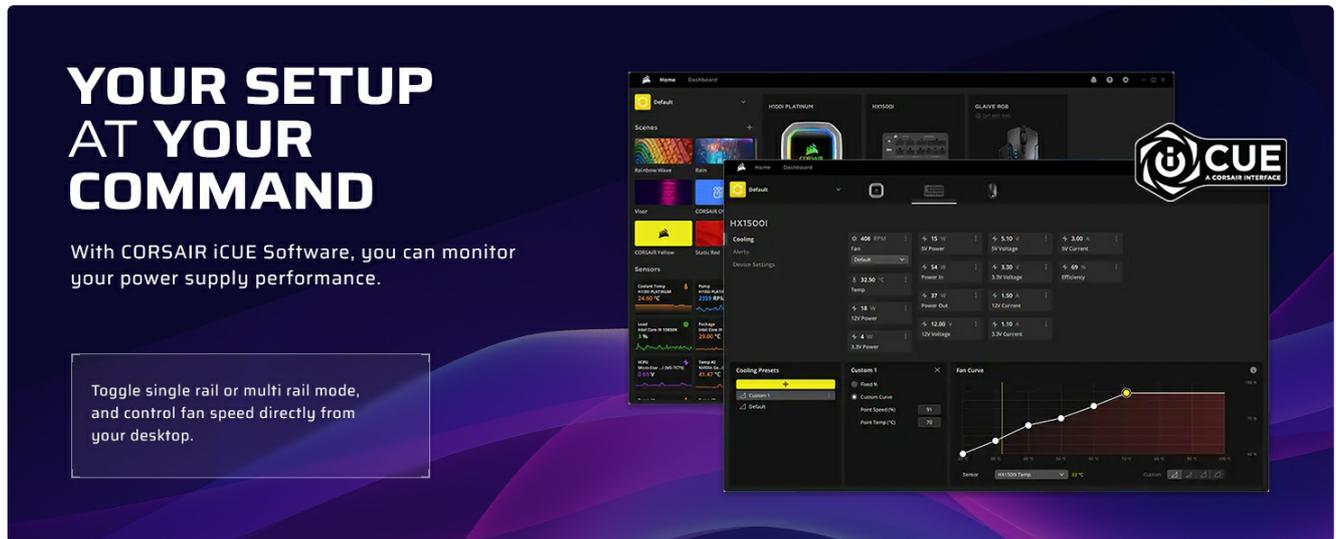

Image: Screenshot of the CORSAIR iCUE software displaying power supply metrics and fan control options.

5.3 Zero RPM Fan Mode

The HX1500i features a Zero RPM fan mode. At low and medium loads, the 140mm fluid dynamic bearing fan will stop spinning entirely, providing near-silent operation. The fan will automatically activate when the load increases to maintain optimal temperatures.

Image: Close-up of the power supply fan, highlighting the Zero RPM mode feature.

6. MAINTENANCE

- **Cleaning:** Periodically clean the power supply's fan grille and exterior with compressed air to remove dust buildup. Ensure the PSU is powered off and unplugged before cleaning.
- **Cable Management:** Regularly check cable connections to ensure they are secure and not obstructing airflow.
- **Environmental Conditions:** Maintain a stable room temperature and humidity to prolong the lifespan of the power supply.

7. TROUBLESHOOTING

- **No Power:** Check all cable connections, especially the 24-pin ATX and EPS12V cables. Ensure the PSU's power switch is 'ON' and the AC cord is securely plugged in. Test the wall outlet with another device.
- **System Instability/Crashes:** This could indicate insufficient power or a faulty component. Monitor power supply readings via CORSAIR iCUE software. Ensure your system's total power draw does not exceed the PSU's

capacity.

- **Fan Not Spinning:** If the system load is low, the Zero RPM mode may be active. The fan will spin up automatically under higher loads. If the fan never spins under heavy load, contact support.

- For further assistance, refer to the Corsair support website or contact their customer service.

8. SPECIFICATIONS

Feature	Specification
Brand	Corsair
Series	HX1500i
Model Number	CP-9020261-NA
Wattage	1500 Watts
Efficiency Rating	80 PLUS Platinum
Form Factor	ATX
ATX Standard	ATX 3.1 Compliant
PCIe Standard	PCIe 5.1 Compliant
Cooling Method	Air (140mm Fluid Dynamic Bearing Fan)
Fan Mode	Zero RPM Mode
Dimensions (LxWxH)	7.87 x 5.91 x 3.39 inches
Weight	5.3 pounds
Capacitors	Japanese 105°C-rated electrolytic capacitors

9. WARRANTY AND SUPPORT

The Corsair HX1500i power supply is backed by a **ten-year warranty**, ensuring long-term reliability and peace of mind. For warranty claims, technical support, or additional product information, please visit the official Corsair support website: www.corsair.com/support