

Corsair HX1200i

Corsair HX1200i Digital Power Supply User Manual

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Corsair HX1200i Digital Power Supply. The HX1200i is a high-performance, fully modular power supply designed for demanding PC systems, featuring 80 PLUS Platinum efficiency and digital monitoring capabilities.

2. SAFETY INFORMATION

Please read and understand all safety warnings before installing or operating this product. Failure to do so may result in personal injury or damage to your system.

- **Electrical Hazard:** Power supplies contain high voltage components. Do not open the power supply casing. There are no user-serviceable parts inside.
- **Ventilation:** Ensure adequate airflow around the power supply. Do not block ventilation openings.
- **Environment:** Install the power supply in a dry, well-ventilated area, away from heat sources, direct sunlight, and moisture.
- **Grounding:** Always connect the power supply to a grounded electrical outlet.
- **Cable Management:** Route cables carefully to prevent pinching or damage. Use only the modular cables provided with this power supply.

3. PACKAGE CONTENTS

Verify that all items are present in your HX1200i package:

- Corsair HX1200i Digital Power Supply
- Modular Cable Set
- AC Power Cord
- Mounting Screws
- Cable Ties
- User Manual (this document)

4. FEATURES

The Corsair HX1200i offers advanced features for optimal performance and control:

- **80 PLUS Platinum Efficiency:** Delivers up to 92% energy efficiency under real-world load conditions, reducing heat and operating costs.
- **Fully Modular Cables:** Low-profile cables allow for easy installation, reduced clutter, and improved airflow within your computer chassis.
- **Zero RPM Fan Mode:** The 140mm fluid dynamic bearing fan operates silently at low to medium loads, spinning up only when necessary.
- **Corsair Link Digital Integration:** Monitor power supply performance, adjust fan speed, and toggle between single rail or multi-rail mode directly from your desktop.
- **Multi-GPU Ready:** Equipped with sufficient connectors and power delivery for multiple graphics card configurations.
- **High-Quality Components:** Built with all Japanese 105°C capacitors for essential reliability and stable power delivery.

5. SETUP AND INSTALLATION

5.1 Physical Installation

1. Turn off your computer and disconnect the AC power cord from the wall outlet.
2. Open your computer case.
3. Remove your old power supply, if applicable.
4. Carefully insert the HX1200i into the power supply mounting bay in your chassis.
5. Secure the power supply using the provided mounting screws.



Image 1: Corsair HX1200i Power Supply. This image shows the overall view of the power supply unit, highlighting its black

5.2 Cable Connections

The HX1200i is fully modular, meaning you only connect the cables your system requires. This reduces clutter and improves airflow.

1. **24-pin ATX Cable:** Connect the 24-pin cable to the corresponding port on the power supply and your motherboard.
2. **EPS/CPU Cables:** Connect the 4+4 pin or 8-pin EPS/CPU cables to the power supply and your motherboard's CPU power connector(s).
3. **PCI-E Cables:** For graphics cards, connect the 6+2 pin PCI-E cables to the power supply and your graphics card(s). Ensure all required PCI-E power connectors on your graphics card(s) are utilized.
4. **SATA Cables:** Connect SATA power cables to your storage drives (SSDs, HDDs) and optical drives.
5. **Peripheral Cables:** Use peripheral (Molex) cables for any other components requiring this type of power connector.
6. **Corsair Link USB Cable:** Connect the included USB cable from the power supply's USB port to an available USB 2.0 header on your motherboard. This enables digital monitoring and control via Corsair Link software.
7. Once all internal connections are made, close your computer case.
8. Connect the AC power cord to the power supply and then to a grounded wall outlet.



Image 2: Corsair HX1200i Modular Cable Panel. This image displays the various modular ports on the power supply, including connections for peripheral, SATA, PCI-E, CPU, and the 24-pin ATX cable, along with the Corsair Link USB port and fan test button.

6. OPERATING INSTRUCTIONS

After successful installation, power on your computer. The HX1200i will automatically begin operation. The Zero RPM Fan Mode ensures silent operation during low to moderate loads. The fan will activate automatically when the power supply reaches a certain temperature or load threshold to maintain optimal cooling.

7. CORSAIR LINK SOFTWARE

The Corsair Link software allows you to monitor and control various aspects of your HX1200i power supply. To use this feature:

1. Ensure the Corsair Link USB cable is connected from the power supply to your motherboard's USB 2.0 header.
2. Download and install the latest Corsair Link software from the official Corsair website.

3. Launch the software. You will be able to view real-time data such as power input/output, efficiency, temperature, and fan speed.
4. The software also allows you to toggle between single +12V rail mode and multi +12V rail mode, and customize fan curves.

8. MAINTENANCE

To ensure the longevity and optimal performance of your HX1200i power supply, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the exterior of the power supply and its fan grille using compressed air to remove dust buildup. Ensure the computer is powered off and unplugged before cleaning.
- **Cable Inspection:** Regularly check all modular cables for secure connections and any signs of wear or damage.
- **Environment:** Maintain a clean, dust-free, and well-ventilated environment for your computer system.

9. TROUBLESHOOTING

If you encounter issues with your HX1200i 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 power supply is in the 'ON' position.
 - Verify all modular cables are correctly seated in both the power supply and the respective components.
- **System Instability/Crashes:**
 - Ensure your system's power requirements do not exceed the HX1200i's 1200W capacity.
 - Check for loose cable connections.
 - Monitor power supply performance using Corsair Link software for any anomalies.
- **Fan Not Spinning:**
 - The HX1200i features Zero RPM Fan Mode. The fan will not spin at low loads. This is normal operation.
 - If the system is under load and the fan is still not spinning, use the Corsair Link software to check fan status or initiate a fan test.
- **Corsair Link Not Detecting PSU:**
 - Verify the Corsair Link USB cable is properly connected to the power supply and an active USB 2.0 header on your motherboard.
 - Ensure the Corsair Link software is installed correctly and is the latest version.
 - Try a different USB 2.0 header on your motherboard.

If issues persist after performing these steps, contact Corsair customer support.

10. SPECIFICATIONS

| Specification | Value |
|--------------------|--|
| Model Name | HX1200i |
| Model Number | CP-9020070-NA |
| Brand | Corsair |
| Wattage | 1200 Watts |
| Efficiency Rating | 80 PLUS Platinum |
| Form Factor | ATX12V |
| Cooling Method | Air (140mm Fluid Dynamic Bearing Fan) |
| Modularity | Fully Modular |
| Dimensions (LxWxH) | 15.43 x 8.85 x 5.98 inches |
| Item Weight | 9.76 pounds |
| Input Voltage | 230 Volts (typical, actual range may vary) |
| USB 2.0 Ports | 1 (for Corsair Link) |

11. WARRANTY AND SUPPORT

The Corsair HX1200i Digital Power Supply comes with a ten-year warranty, ensuring reliable operation across multiple system builds. For technical assistance or warranty claims, please contact Corsair Customer Service.

Customer Service / Tech Support: 1-888-222-4346 opt 1

For the most up-to-date support information and resources, visit the official Corsair website.