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Enermax ERS1200EWT-V2

ENERMAX Revolution ATX 3.1 1200 Watt Power Supply User Manual

Model: ERS1200EWT-V2 | Brand: Enermax

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ENERMAX Revolution ATX 3.1 1200 Watt Fully Modular Power Supply. Please read this manual thoroughly before installation and retain it for future reference. This power supply is designed to deliver stable and efficient power to high-performance PC systems.



Image 1.1: Angled view of the ENERMAX Revolution ATX 3.1 1200W Power Supply.

2. SAFETY INFORMATION

To prevent personal injury or damage to your equipment, observe the following safety precautions:

- Ensure the power supply is disconnected from the AC power outlet before installation or maintenance.
- Do not open the power supply casing. High voltages are present inside, and there are no user-serviceable parts.
- Install the power supply in a well-ventilated area, away from heat sources, direct sunlight, and moisture.
- Use only the modular cables provided with this power supply. Using incompatible cables may cause damage to the PSU or connected components.
- Ensure all cables are securely connected before powering on the system.
- This product is intended for use in computer systems only.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ENERMAX Revolution ATX 3.1 1200 Watt Power Supply Unit
- Modular Cable Set (including Mainboard, CPU, PCIe 5.1 12V-2x6, SATA, and 4P Molex cables)

- AC Power Cord
- Mounting Screws
- User Manual

4. PRODUCT FEATURES

The ENERMAX Revolution ATX 3.1 1200 Watt Power Supply offers advanced features for reliable and efficient performance:

- **Intel ATX 3.1 & PCIe 5.1 Ready:** Designed to meet the latest power standards for modern high-performance components.
- **Semi-Fanless Technology:** The fan remains off under approximately 20% load, ensuring silent operation during light tasks.
- **High-Efficiency Design:** Features a half-bridge LLC resonant converter combined with a DC-to-DC circuit design for superior output efficiency and stable voltage regulation.
- **Compact 140mm Chassis Depth:** Facilitates easier installation in various PC cases while delivering high wattage output.
- **Fully Modular:** Allows for clean cable management by connecting only the necessary cables.
- **80 PLUS Gold Certified:** Ensures high power efficiency, reducing energy waste and heat generation.
- **105°C Japanese Capacitors:** Utilizes high-quality Japanese capacitors for enhanced durability and stability.
- **Multiple Protection Circuitries:** Includes Over Current Protection (OCP), Over Voltage Protection (OVP), Under Voltage Protection (UVP), Over Power Protection (OPP), Over Temperature Protection (OTP), and Short Circuit Protection (SCP) for system safety.



Image 4.1: Modular connectors and ATX 3.1 certification.



Image 4.2: Native PCIe 5.1 connector for modern GPUs.

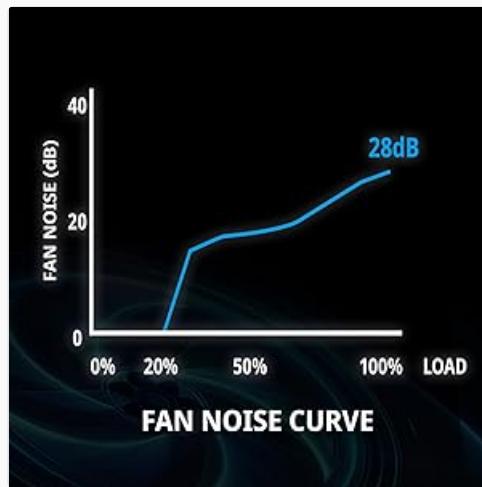


Image 4.3: Fan noise curve demonstrating semi-fanless operation.



Image 4.4: Multiple protection circuitries for system safety.

5. SETUP AND INSTALLATION

5.1 Pre-Installation Checklist

- Ensure your PC case is compatible with ATX form factor power supplies.
- Gather all necessary tools: screwdriver, zip ties or cable management straps.
- Unplug your computer from the wall outlet and discharge any residual power by pressing the power button for

a few seconds.

5.2 Physical Installation

1. Open your PC case and locate the power supply mounting area, typically at the bottom or top rear.
2. Carefully slide the ENERMAX Revolution PSU into the designated slot.
3. Align the screw holes on the PSU with those on the case and secure the PSU using the provided mounting screws.



Image 5.1: Rear panel of the power supply.

5.3 Cable Connections

As a fully modular power supply, you only need to connect the cables required for your system. Refer to your motherboard and component manuals for specific connection points.



Image 5.2: Modular cable connection ports.

A dark-themed chart titled "REVOLUTION ATX 3.1 1200W" and "ERS1200EWT-V2" showing the included modular cables and connectors. The chart is a 3x6 grid. The first column contains icons for Mainboard 24P, CPU 4+4P (8P), and 12V 2x6 12+4P. The second column contains icons for PCIe 6+2P (8P), SATA, and 4P Molex. The third column contains icons for 1 connector, 2 connectors, and 1 cable. The fourth column contains icons for 3 connectors, 8 connectors, and 3 cables. The fifth column contains icons for 2 cables, and the sixth column contains icons for 1 cable. The chart is set against a dark background with a glowing effect around the power supply image.

Image 5.3: Overview of included modular cables and connectors.

- Mainboard Power:** Connect the 24-pin ATX cable from the PSU to the corresponding port on your motherboard.
- CPU Power:** Connect the 4+4-pin or 8-pin CPU power cable(s) to the CPU power connector(s) on your motherboard.
- PCIe Power:** For graphics cards, use the appropriate PCIe 6+2-pin or the native 12V-2x6 (12+4-pin) cable for PCIe 5.1 compatible GPUs. Ensure all required power connectors on your graphics card are populated.
- SATA Power:** Connect SATA power cables to SSDs, HDDs, and optical drives.
- 4P Molex Power:** Connect Molex cables for older peripherals or case fans if needed.
- Once all internal connections are made, manage your cables for optimal airflow and aesthetics.
- Connect the AC power cord to the PSU's inlet and then to a wall outlet.

6. OPERATING INSTRUCTIONS

6.1 Initial Power On

- Ensure the power switch on the back of the PSU is in the 'OFF' (0) position.
- Connect the AC power cord to the PSU and a wall outlet.
- Flip the power switch on the PSU to the 'ON' (I) position.
- Press the power button on your computer case to start the system.

6.2 Semi-Fanless Operation

The ENERMAX Revolution PSU features semi-fanless technology. The cooling fan will remain off when the power load is below approximately 20% to provide silent operation. As the system load increases, the fan will automatically activate and adjust its speed to maintain optimal temperatures. This is normal operation and not an indication of a malfunction.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your power supply.

- Dust Cleaning:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup, which can impede airflow and cooling. Use compressed air or a soft brush. Always disconnect the PSU from AC power before cleaning.
- Cable Inspection:** Occasionally check all modular cable connections to ensure they are secure and free from damage.
- Environment:** Ensure the PC operates in a clean, dry, and well-ventilated environment.

8. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	AC power cord not connected or loose. PSU switch is OFF. Loose internal cables.	Ensure AC cord is firmly connected. Flip PSU switch to ON (I). Recheck all modular cable connections.

Problem	Possible Cause	Solution
System powers on but shuts down immediately.	Overload, short circuit, or component malfunction.	Disconnect non-essential components. Check for short circuits. Consult a technician if problem persists.
PSU fan is not spinning.	Normal semi-fanless operation (low load). Fan malfunction.	This is normal if system load is below 20%. If fan does not spin under heavy load, contact support.
Unusual noises from PSU.	Fan obstruction or defect.	Disconnect power and check for obstructions. If noise persists, contact support.

9. SPECIFICATIONS

Feature	Detail
Model Number	ERS1200EWT-V2
Wattage	1200 Watts
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
ATX Standard	ATX 3.1
PCIe Standard	PCIe 5.1 (Native 12V-2x6 connector)
Cooling Method	Air (Semi-Fanless 120mm Fan)
Capacitors	105°C Japanese Capacitors
Dimensions (L x W x H)	5.91 x 5.51 x 3.39 inches (150 x 140 x 86 mm)
Item Weight	5.94 pounds
Minimum Input Voltage	110 Volts (AC)
Maximum Input Voltage	120 Volts (AC)

10. WARRANTY AND SUPPORT

10.1 Warranty Information

ENERMAX power supplies typically come with a manufacturer's warranty. Please refer to the official ENERMAX website or your product packaging for the most current and detailed warranty terms and conditions, which may include a 5-year limited warranty.

10.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please visit the official ENERMAX

support website or contact their customer service department. Contact information can usually be found on the ENERMAX website or in your product packaging.

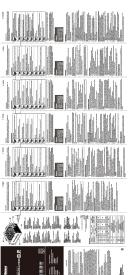
11. PRODUCT OVERVIEW VIDEO

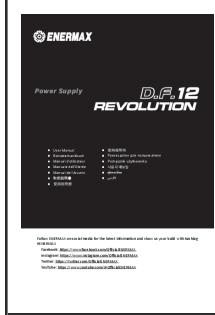
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Video 11.1: An official product video providing a visual overview of the ENERMAX Revolution ATX 3.1 Power Supply's features and design.

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Related Documents - ERS1200EWT-V2

	<p><u>ENERMAX Revolution D.F. 750W Power Supply User Manual</u></p> <p>Comprehensive guide for the ENERMAX Revolution D.F. 750W (ERF750EWT) PC power supply unit, detailing its advanced features, technical specifications, installation procedures, and safety precautions for optimal performance and reliability.</p>
	<p><u>ENERMAX REVOLUTION SFX Power Supply Unit User Manual</u></p> <p>Comprehensive user manual for the ENERMAX REVOLUTION SFX series power supply units (PSUs), covering installation, specifications, compatibility, safety guidelines, and troubleshooting for 550W and 650W models. Includes details on SFX-to-ATX adapter, fanless operation, and multi-GPU setup recommendations.</p>
	<p><u>ENERMAX REVOLUTION III Power Supply User Manual, Specifications, and Safety Guide</u></p> <p>Comprehensive user manual for the ENERMAX REVOLUTION III series power supplies. Covers installation, component lists, specifications, protection features, FAQs, safety precautions, and warranty information. Includes multilingual support.</p>
	<p><u>Enermax Revolution ATX 3.0 1000W PSU - User Manual</u></p> <p>Comprehensive guide to the Enermax Revolution ATX 3.0 1000W power supply unit (ERA1000EWT), detailing features, specifications, installation, and safety.</p>
	<p><u>Enermax Revolution D.F.2 80 PLUS Gold Power Supply Unit Manual</u></p> <p>User manual for the Enermax Revolution D.F.2 series of 80 PLUS Gold certified, fully modular ATX power supply units. Provides detailed specifications, features, installation instructions, and troubleshooting tips for reliable PC power.</p>



[ENERMAX Revolution D.F. 12 Power Supply User Manual](#)

This manual provides comprehensive guidance for the ENERMAX Revolution D.F. 12 series power supply units, covering product features, installation, specifications, safety precautions, and troubleshooting. It supports multiple languages for user convenience.