

Zalman ZM1200-ARX

Zalman ZM1200-ARX 1200W ATX Power Supply Unit User Manual

Model: ZM1200-ARX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Zalman ZM1200-ARX 1200W ATX Power Supply Unit. The ZM1200-ARX is a high-performance, fully modular power supply designed to deliver stable and efficient power to your computer system. Please read this manual thoroughly before installation and retain it for future reference.



Figure 1: Top-front view of the Zalman ZM1200-ARX Power Supply Unit.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage to your system, please observe the following safety precautions:

- **CAUTION!** Do not remove the power supply cover. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Do not operate the power supply in high humidity or extreme temperature environments.
- Ensure the power supply is disconnected from the AC power outlet before installation or maintenance.
- Install the power supply in a well-ventilated area to prevent overheating.
- Use only the modular cables provided with the Zalman ZM1200-ARX. Using incompatible cables may cause damage.
- This product is designed for use in computer systems only. Do not use it for any other purpose.

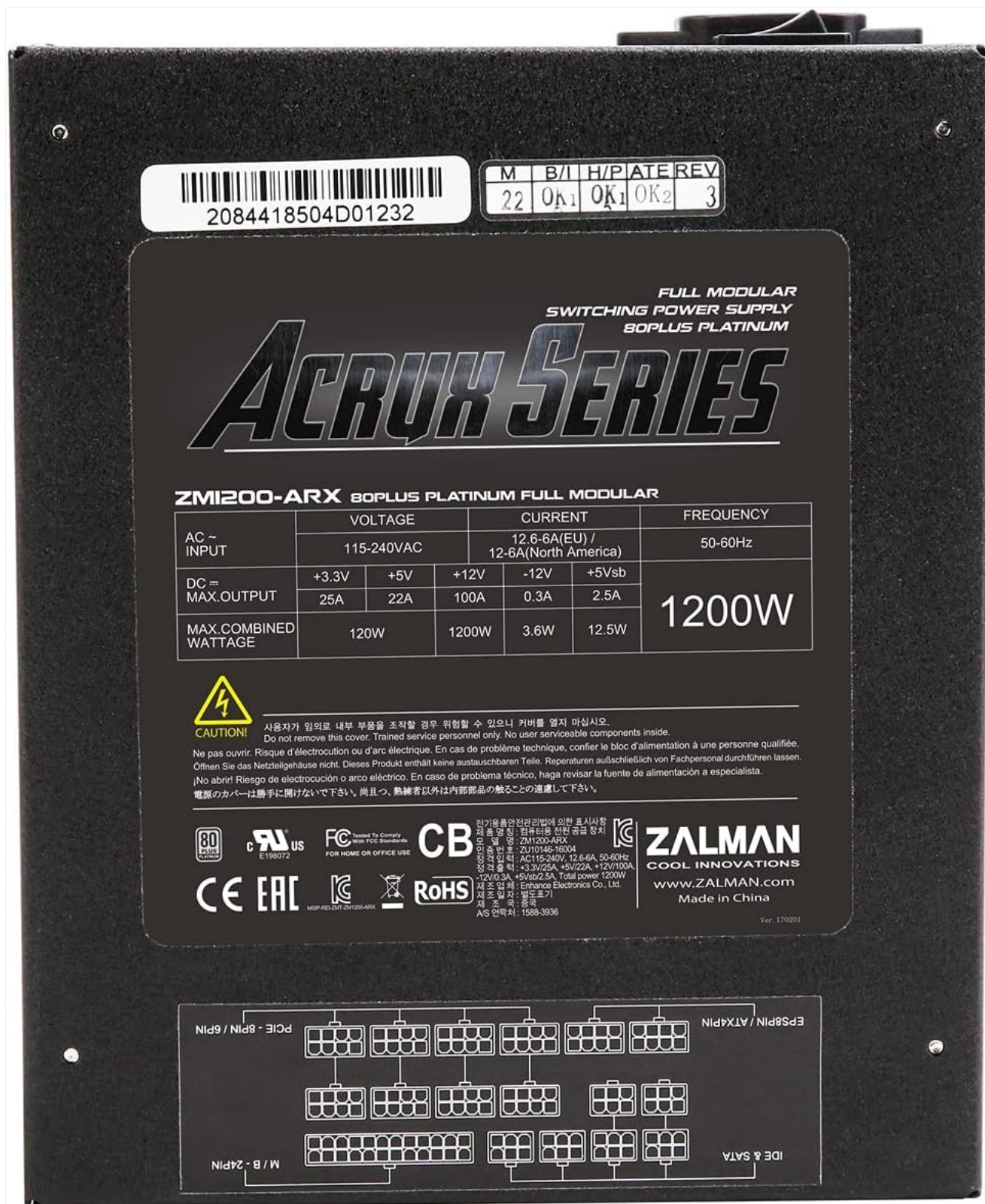


Figure 2: Warning label and electrical specifications on the PSU.

3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- Zalman ZM1200-ARX 1200W ATX Power Supply Unit
- Modular Cable Set (various types for motherboard, CPU, PCIe, SATA, Molex)
- AC Power Cord
- Mounting Screws

- User Manual (this document)
- Cable Ties (for organization)
- Storage Pouch for unused cables



Figure 3: All components included in the Zalman ZM1200-ARX package.

4. SETUP AND INSTALLATION

4.1. Physical Installation

Follow these steps to install the power supply into your computer case:

1. Ensure your computer is powered off and disconnected from the AC power outlet.
2. Open your computer case according to its manufacturer's instructions.
3. Locate the power supply mounting area, typically at the bottom or top rear of the case.
4. Carefully slide the Zalman ZM1200-ARX into the designated slot.
5. Align the screw holes on the power supply with those on the case.
6. Secure the power supply using the provided mounting screws.

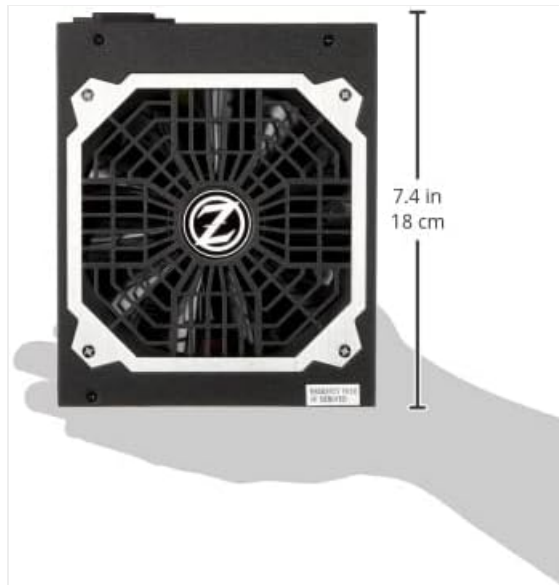


Figure 4: Dimensions of the Zalman ZM1200-ARX Power Supply Unit.

4.2. Cable Connections

The ZM1200-ARX is a fully modular power supply, allowing you to connect only the cables you need. This helps improve airflow and cable management within your case.

- **24-pin ATX Motherboard Cable:** Connect to the main power connector on your motherboard.
- **8-pin (4+4) EPS/ATX 12V CPU Cable:** Connect to the CPU power connector(s) on your motherboard.
- **8-pin (6+2) PCIe Cables:** Connect to your graphics cards. Use separate cables for each high-power graphics card.
- **SATA Power Cables:** Connect to SATA devices such as SSDs, HDDs, and optical drives.
- **Molex (Peripheral) Cables:** Connect to older peripherals or case fans.
- Ensure all cables are securely seated in both the power supply and the component.



5. OPERATING INSTRUCTIONS

After completing the installation and connecting all necessary cables:

1. Connect the AC power cord to the power supply's AC inlet and then to a wall outlet.
2. Flip the power switch on the rear of the power supply to the 'ON' (I) position.
3. Power on your computer system using the case's power button.
4. To power off, shut down your computer normally, then flip the power switch on the PSU to the 'OFF' (O) position and disconnect the AC power cord if desired.



Figure 6: Rear view of the PSU showing the AC input and power switch.

6. 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 remove dust from the fan and vents. Ensure the power supply is off and unplugged before cleaning.
- **Airflow:** Ensure that the power supply's fan intake and exhaust are not obstructed. Maintain good airflow within your

computer case to prevent heat buildup.

- **Cable Management:** Organize cables neatly to improve airflow and prevent them from interfering with cooling fans.

7. TROUBLESHOOTING

If you encounter issues with your Zalman ZM1200-ARX, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	AC power cord not connected, PSU switch off, loose cables.	Check AC power cord, ensure PSU switch is 'ON', re-seat all modular cables.
System powers on but shuts down immediately.	Overload, short circuit, faulty component.	Disconnect non-essential components to isolate the issue. Check for short circuits. Consult a technician if problem persists.
Unstable system operation or crashes.	Insufficient power, faulty PSU, or other component issues.	Ensure total system power draw is within PSU limits. Test with another known-good PSU if possible.
Fan is noisy or not spinning.	Dust buildup, fan malfunction.	Clean fan grille and blades with compressed air. If fan still malfunctions, contact support.

8. SPECIFICATIONS

Detailed technical specifications for the Zalman ZM1200-ARX Power Supply Unit:

Feature	Specification
Model Name	ZM1200-ARX
Total Power Output	1200 Watts
Form Factor	ATX
Efficiency Rating	80 PLUS Platinum
Modularity	Full Modular
Cooling Method	Air (Fan Cooled)
AC Input Voltage	115-240VAC
AC Input Frequency	50-60Hz
DC Output +3.3V	25A
DC Output +5V	22A
DC Output +12V	100A
DC Output -12V	0.3A

Feature	Specification
DC Output +5Vsb	2.5A
Max Combined Wattage (+3.3V/+5V)	120W
Max Combined Wattage (+12V)	1200W
Dimensions (L x W x H)	18 x 15 x 8.6 cm (7.09 x 5.91 x 3.39 inches)
Weight	3100 Grams (6.83 lbs)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Zalman ZM1200-ARX Power Supply Unit, please refer to the warranty card included with your product or visit the official Zalman website. Contact information for customer support can typically be found on the manufacturer's website.