Rosewill VSB750

Rosewill VSB 750W 80+ Bronze Semi-Modular Power Supply User Manual

MODEL: VSB750

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Rosewill VSB 750W 80+ Bronze Semi-Modular Power Supply. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Safety Information

WARNING: Power supplies contain high voltage components. Do not open the power supply unit. There are no user-serviceable parts inside. Opening the casing will void the warranty and poses a risk of electric shock.

- Ensure the power supply is disconnected from the AC power outlet before installation or handling.
- Install the power supply in a well-ventilated area.
- Use only the cables provided with the power supply.
- Do not block any ventilation openings on the power supply.
- This product is designed for use in personal computers. Do not use it for any other purpose.

Setup and Installation

1. Unpacking

Carefully remove the power supply and all accessories from the packaging. Verify that all components are present:

- Rosewill VSB 750W Power Supply
- AC Power Cord
- Modular Cables (PCIe, SATA, Molex)
- Mounting Screws
- Cable Ties

2. Physical Installation

Install the power supply into the designated PSU bay of your computer case. Secure it with the provided mounting screws.

The Rosewill VSB 750W features a compact 140x150x86mm chassis, which is 35% smaller than many regular ATX PSUs, allowing for flexible integration into various PC builds.

The power supply includes a 120mm ICB silent fan for optimized thermal control and quiet operation.

Figure 1: Top-down view of the Rosewill VSB 750W Power Supply, highlighting the fan grill and branding.

3. Cable Connections

The Rosewill VSB 750W is a semi-modular power supply. Essential cables (24-pin motherboard, 4+4 pin CPU) are permanently attached, while others are modular.

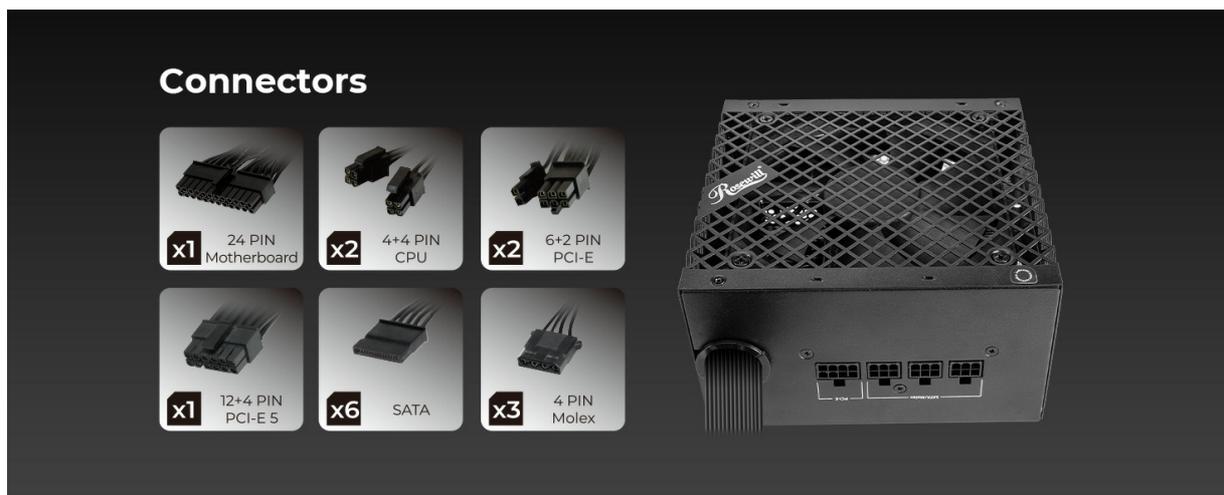Connect the necessary cables to your motherboard and components.

Motherboard Connection

Connect the 24-pin ATX cable from the power supply to the corresponding port on your motherboard.

CPU Power Connection

Connect the 4+4 pin CPU power cable(s) to the CPU power port(s) on your motherboard. Most motherboards require one 8-pin (4+4) connector, while some high-end boards may require two.

PCIe 5.1 / Gen 5 12V-2x6 Connector

This power supply includes a native PCIe 5.1 / Gen 5 12V-2x6 cable, designed to deliver up to 600W directly to compatible next-generation graphics cards. Connect this cable directly to your PCIe 5.1 GPU if applicable.

Figure 3: The native 12V-2x6 PCIe 5.1 connector for direct GPU power.

Additional PCIe Connections

For other graphics cards requiring 6+2 pin PCIe connectors, use the provided modular cables. Connect one end to the power supply's PCIe ports and the other to your graphics card.

SATA and Molex Connections

Connect the modular SATA power cables to your storage drives (SSDs, HDDs) and optical drives. Use Molex connectors for any peripherals that require them.

Figure 4: Modular cable connection ports on the power supply.

4. Power Connection

Once all internal connections are secure, connect the AC power cord to the power supply and then to a wall outlet or surge protector. Ensure the power switch on the back of the PSU is in the "OFF" (0) position before connecting to AC power.

Operation

After completing all connections, flip the power switch on the back of the power supply to the "ON" (I) position. You can then power on your computer using the case's power button.
The 120mm ICB silent fan operates to maintain optimal temperatures while minimizing noise.
This power supply is Intel ATX 3.0 & 3.1 Ready, supporting up to 235% power excursion and 300% GPU power excursion for stable performance under demanding loads.

Maintenance

To ensure the longevity and optimal performance of your power supply:

- **Dust Removal:** Periodically clean the exterior of the power supply and the fan grill to prevent dust buildup, which can impede airflow and cooling. Use compressed air or a soft brush. Ensure the power supply is disconnected from AC power before cleaning.

- **Cable Management:** Proper cable management helps maintain good airflow within your PC case, contributing to better cooling for all components, including the PSU.

- **Environmental Conditions:** Operate the power supply within recommended temperature and humidity ranges. Avoid extreme heat or moisture.

Troubleshooting

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

- **No Power:**
    - Check if the AC power cord is securely connected to both the power supply and the wall outlet.
    - Ensure the power switch on the back of the PSU is in the "ON" (I) position.
    - Verify all internal cables (24-pin ATX, CPU, PCIe) are correctly and securely connected.
    - Test the wall outlet with another device to confirm it has power.

- **System Instability or Random Shutdowns:**
    - This could indicate an overloaded power supply or a component issue. Ensure your system's power requirements do not exceed the PSU's 750W capacity.
    - The Rosewill VSB 750W features an advanced protection suite (OCP, OPP, OTP, OVP, SCP, UCP) designed to prevent damage from various electrical anomalies. If these protections are triggered, the PSU may shut down to protect your components.

- **Fan Noise:**
    - While designed for silent operation, excessive fan noise could indicate dust buildup. Refer to the Maintenance section for cleaning instructions.
    - If the noise persists, ensure the PSU is securely mounted and not vibrating against the case.

If troubleshooting steps do not resolve the issue, contact Rosewill customer support.

Figure 5: The Advanced Protection Suite ensures system safety.

Specifications

The following table details the technical specifications of the Rosewill VSB 750W Power Supply.

Feature	Detail
Model Name	VSB750
Brand	Rosewill

Output Wattage	750 Watts
Form Factor	ATX
Power Supply Design	Semi-Modular
Efficiency Certification	80 PLUS Bronze
ATX Standard	ATX 3.0 & 3.1 Compatible
PCIe Connector	Native PCIe 5.1 / Gen 5 12V-2x6
Cooling Method	Air (120mm ICB Silent Fan)
Dimensions (L x W x H)	5.51 x 5.9 x 3.38 inches (140 x 150 x 86 mm)
Maximum Input Voltage	240 Volts (AC)
Minimum Input Voltage	110 Volts (AC)
Capacitors	105°C/221°F Japanese Capacitor
Protection Suite	OCP, OPP, OTP, OVP, SCP, UCP
UPC	840951136058

Warranty

The Rosewill VSB 750W Power Supply comes with a 5-year manufacturer's warranty. For warranty claims or detailed terms and conditions, please refer to the official Rosewill website or contact their customer support.

Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the official Rosewill support website or contact their customer service department. Keep your purchase receipt and product serial number handy when contacting support.

You can find more information and support resources at the Rosewill Store on Amazon.