Rosewill RP600V2-S-SL

Rosewill 600W Power Supply

MODEL: RP600V2-S-SL

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Rosewill 600W Power Supply, model RP600V2-S-SL. Please read this manual thoroughly before installation to ensure safe and efficient use of the product.

1.1 Safety Precautions

- Always disconnect the power supply from the AC outlet before installation or maintenance.
- Do not open the power supply unit. Hazardous voltages are present inside, and there are no user-serviceable parts. Opening the unit will void the warranty.
- Ensure the power supply is installed in a well-ventilated area.
- Use only the cables provided with the power supply.
- Verify that the voltage selector switch (if present) is set to the correct local voltage (115V or 230V) before connecting to AC power.

2. FEATURES

The Rosewill RP600V2-S-SL Power Supply offers the following features:

- Complies with ATX12V v2.01 Version for broad compatibility.
- Supports both Intel and AMD processor-based systems.
- Dual 12V Rails provide independent and reliable power delivery.
- 12V Combined output of 35A for stable performance.
- SLI Ready with Dual PCI-Express Connectors (one 6-pin and one 6+2-pin).
- Silent 120mm Double ball-bearing Blue LED Fan for effective cooling and visual appeal.
- Fan Speed Control Switch with low, auto, and high settings.
- 20+4 pin main connector for universal motherboard compatibility.

3. SETUP AND INSTALLATION

Follow these steps to install the power supply in your computer system:

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall outlet. Open your computer case to access the power supply bay.

2. **Remove Old Power Supply (if applicable):** Disconnect all cables from your old power supply to the motherboard and other components. Unscrew and remove the old power supply from the case.

3. **Install New Power Supply:** Carefully place the Rosewill RP600V2-S-SL into the power supply bay. Secure it with screws provided with your computer case or power supply.

Figure 3.1: Angled view of the Rosewill RP600V2-S-SL Power Supply, showcasing the blue LED illuminated 120mm fan and mesh-covered cables.

4. **Connect Main Power Cable:** Connect the 20+4 pin main power connector to the corresponding port on your motherboard. Ensure it is firmly seated.

5. **Connect CPU Power Cable:** Connect the 4-pin or 8-pin CPU power connector to the motherboard.

6. **Connect PCI-Express Cables:** For graphics cards requiring additional power, connect the 6-pin or 6+2-pin PCI-Express connectors. This power supply includes both types.

Figure 3.2: A close-up view of the various power connectors, including the 20+4 pin main connector, PCI-Express (6-pin and 6+2-pin), SATA, and Molex connectors.

7. **Connect Peripheral Cables:** Connect SATA power connectors to your hard drives, SSDs, and optical drives. Use Molex connectors for other peripherals as needed.

8. **Manage Cables:** Utilize the mesh-sleeved cables and your case's cable management features to ensure proper airflow and a tidy interior.

9. **Set Voltage Selector:** On the rear of the power supply, ensure the red voltage selector switch is set to the correct input voltage for your region (115V for North America, 230V for Europe/Asia).
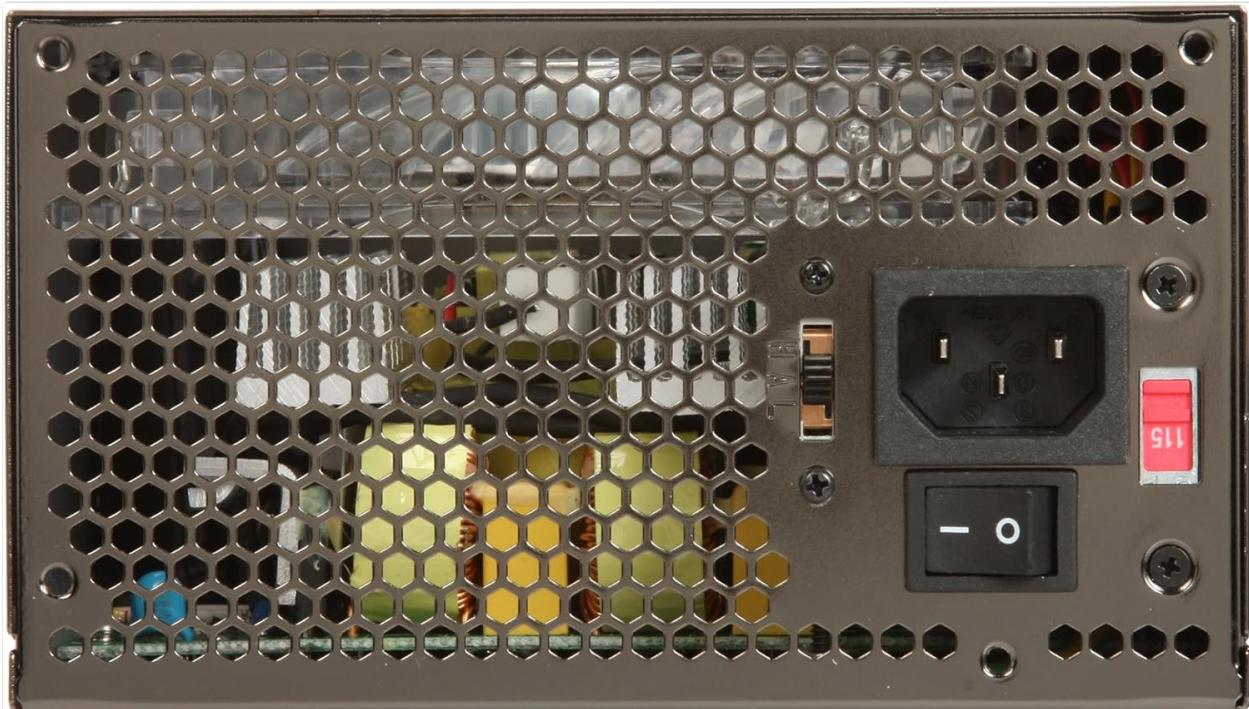
Figure 3.3: Rear panel of the power supply, showing the AC power input, the main power switch, and the red voltage selector switch (115V/230V).

10. **Close Case and Connect Power:** Close your computer case. Connect the AC power cord to the power supply and then to a wall outlet.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- After installation, flip the main power switch on the rear of the power supply to the 'I' (On) position.
- Press the power button on your computer case to start the system.
- To power off, shut down your operating system normally. For complete power disconnection, flip the main power switch on the PSU to 'O' (Off) and unplug the AC cord.

4.2 Fan Speed Control

The power supply features a 120mm fan with a speed control switch. This switch allows you to adjust the fan's operation based on your preference for cooling and noise levels.

- **Low:** Provides quieter operation, suitable for systems with lower power demands.
- **Auto:** The fan speed automatically adjusts based on the power supply's internal temperature, balancing cooling and noise.
- **High:** Maximizes cooling performance, ideal for systems under heavy load, though it may result in increased fan noise.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power supply.

- **Dust Removal:** Periodically clean dust from the power supply's fan and vents using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Regularly check that cables are not obstructing airflow within the computer case.
- **Do Not Disassemble:** Never attempt to open the power supply unit. It contains high voltage components and doing so will void the warranty and poses a safety risk.

6. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common troubleshooting steps:

- **No Power:**

    - Ensure the AC power cord is securely connected to both the power supply and the wall outlet.
    - Verify the main power switch on the rear of the PSU is in the 'On' position.
    - Check the voltage selector switch (115V/230V) is set correctly for your region.
    - Confirm all internal power cables (20+4 pin, CPU, PCIe) are properly connected to the motherboard and components.

- **System Instability/Random Shutdowns:**

    - Ensure the power supply is adequately rated for all your system components.
    - Check for proper ventilation within the computer case to prevent overheating.
    - Verify all power connections are secure.

- **Fan Noise:**

    - Adjust the fan speed control switch to 'Low' or 'Auto' if excessive noise is a concern.
    - Clean any dust accumulation from the fan and vents.

If problems persist after following these steps, contact Rosewill customer support or a qualified technician.

7. SPECIFICATIONS

Detailed technical specifications for the Rosewill RP600V2-S-SL Power Supply:

Feature	Specification
Model Number	RP600V2-S-SL
Output Wattage	600 Watts
Form Factor	ATX12V
ATX Version Compliance	v2.01
Cooling Method	Air (120mm Double Ball-Bearing Blue LED Fan)
Dimensions (L x W x H)	5.51 x 5.91 x 3.39 inches
Item Weight	2.37 pounds
Compatible Devices	Personal Computer
Main Connector	20+4 Pin
PCI-Express Connectors	1x 6-pin, 1x 6+2-pin
12V Combined Output	35A
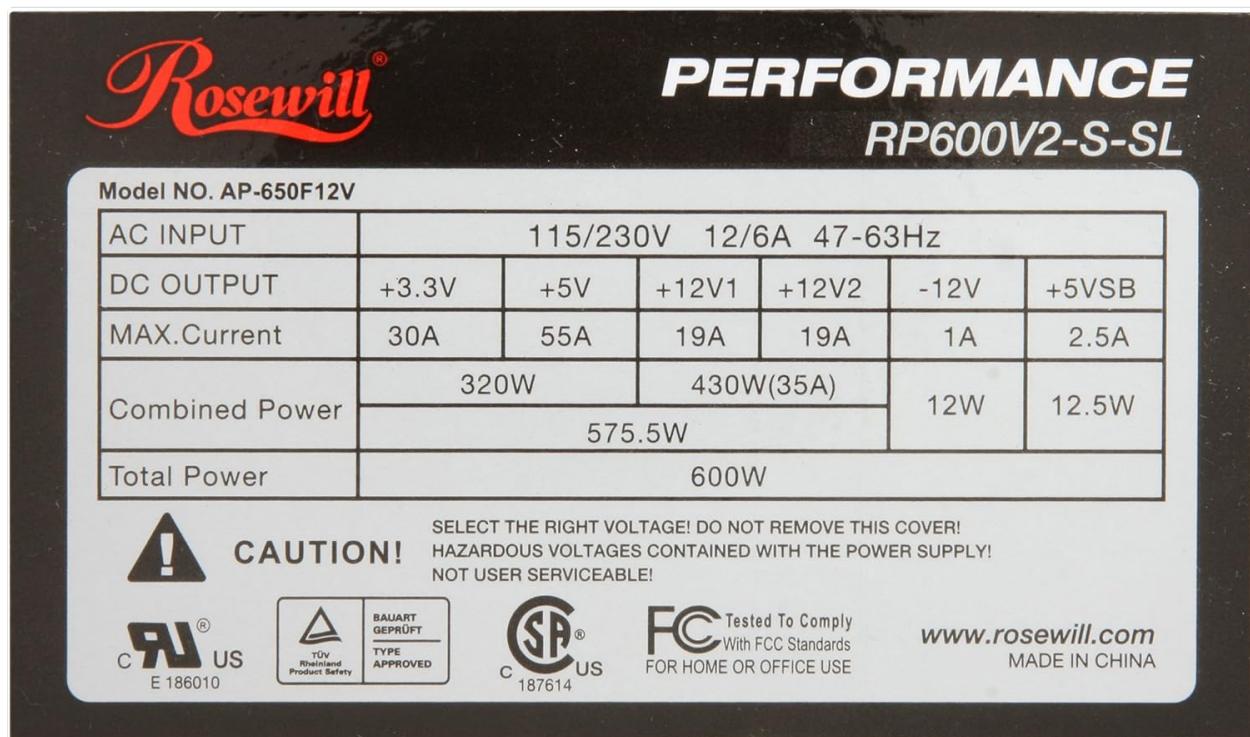
Figure 7.1: The specification label located on the side of the power supply, detailing AC input, DC output, and combined power ratings.

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your product packaging or visit the official Rosewill website. Warranty terms and conditions may vary by region and

purchase date.

For additional resources and product information, you may visit the Rosewill Store.