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› Cooler Master V550 550W 80 Plus Gold Modular Power Supply User Manual

Cooler Master V550 (RS550-AFBAG1-UK)

Cooler Master V550 550W 80 Plus Gold Modular Power Supply User Manual

Model: V550 (RS550-AFBAG1-UK) | Brand: Cooler Master

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Cooler Master V550 550W 80 Plus Gold Modular Power Supply. The V550 series is designed to deliver stable and efficient power to your PC components, featuring 80 Plus Gold certification for high energy efficiency and a fully modular design for improved cable management.



Figure 1.1: The Cooler Master V550 550W 80 Plus Gold Modular Power Supply. This image shows the main view of the power supply unit, highlighting its compact design and the Cooler Master branding.

2. SAFETY INFORMATION

Please read and understand all safety precautions before installing or operating the power supply. Failure to do so may result in personal injury or damage to the product and connected components.

- **Electrical Hazard:** Do not open the power supply unit. High voltages are present inside, even when the unit is unplugged. There are no user-serviceable parts inside.
- **Proper Grounding:** Ensure the power supply is properly grounded through the AC power cord and the PC case.
- **Ventilation:** Do not block the ventilation openings of the power supply. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the power supply to water or excessive humidity.
- **Power Source:** Connect the power supply only to a grounded AC outlet with the correct voltage and frequency as specified on the unit's label.
- **Cable Management:** Ensure all cables are routed properly and do not obstruct airflow or fan operation.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your product package:

- Cooler Master V550 Power Supply Unit
- Modular Cable Set (including 24-pin ATX, 4+4-pin EPS, 6+2-pin PCIe, SATA, and 4-pin Peripheral/Molex cables)
- AC Power Cord
- Mounting Screws
- User Manual (this document)



Figure 3.1: Included modular cables for the Cooler Master V550. This image displays the full set of flat, black modular cables that come with the power supply, designed for flexible system building and improved airflow.

4. SETUP AND INSTALLATION

Follow these steps to properly install your Cooler Master V550 power supply into your computer system.

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case to access the power supply mounting area.
2. **Mount the Power Supply:** Carefully slide the V550 into the power supply bay of your PC case. Align the screw holes on the power supply with those on the case. Secure the power supply using the provided mounting screws.
3. **Connect Modular Cables:**
 - **24-pin ATX Cable:** Connect the large 24-pin cable from the power supply to the corresponding port on your motherboard.
 - **4+4-pin EPS/CPU Cable:** Connect this cable to the CPU power connector on your motherboard, typically located near the CPU socket.
 - **6+2-pin PCIe Cables:** Connect these cables to your graphics card(s) if they require external power. Use separate cables for each connector if your card has multiple.
 - **SATA Power Cables:** Connect these to your SATA hard drives, solid-state drives, and optical drives.
 - **4-pin Peripheral/Molex Cables:** Use these for older peripherals or case fans that require Molex power.

Note: Only connect the cables required for your system to minimize clutter and improve airflow. The fully modular

design allows for this flexibility.

4. **Route Cables:** Route all connected cables neatly through your case's cable management channels to ensure optimal airflow and a clean build.
5. **Connect AC Power:** Once all internal connections are made, close your PC case. Connect the AC power cord to the power supply's inlet and then plug the other end into a grounded wall outlet.
6. **Power On:** Ensure the power switch on the back of the power supply is in the 'ON' (I) position. You can now power on your computer.



Figure 4.1: Side view of the Cooler Master V550 showing the modular cable connection ports. This image illustrates the clearly labeled ports for connecting the various modular cables, simplifying the installation process.



Figure 4.2: The Cooler Master V550 with all modular cables connected. This view demonstrates how the cables attach to the power supply, showcasing the fully modular design that allows for clean cable management.



Figure 4.3: Cooler Master V550 power supply installed within a computer case. This image provides a visual reference of the power supply's placement inside a typical PC build, demonstrating its integration with other components.

5. OPERATING INSTRUCTIONS

The Cooler Master V550 is designed for reliable and efficient operation. Once installed, its operation is largely automatic.

- **Power On/Off:** The main power switch on the rear of the PSU controls the power flow to the unit. Ensure it is in the 'ON' (I) position for the system to receive power.
- **Efficiency:** The V550 is 80 Plus Gold certified, meaning it operates at up to 92% efficiency under typical load conditions. This reduces wasted energy and heat generation.
- **Fan Operation:** The integrated Silencio FP fan provides quiet and efficient cooling for the power supply. The fan speed is automatically regulated based on the PSU's temperature and load to maintain optimal performance and acoustics.



Figure 5.1: Rear view of the Cooler Master V550, showing the AC power inlet and the main power switch. This image highlights the external connections and controls for the power supply.

6. MAINTENANCE

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

- **Dust Cleaning:** Periodically inspect the power supply's fan and ventilation grilles for dust accumulation. Use compressed air to gently clear dust from the fan blades and heatsinks. Ensure the system is powered off and unplugged before cleaning.
- **Ventilation:** Ensure that the area around the power supply inside your PC case remains clear of obstructions to allow for proper airflow. Good case airflow contributes to the PSU's cooling efficiency.
- **Cable Check:** Occasionally check that all modular cables are securely seated in their respective ports on both the power supply and your components.



Figure 6.1: Top-down view of the Cooler Master V550's cooling fan. This image shows the fan grille and the Cooler Master logo on the fan hub, emphasizing the importance of keeping this area clear for effective cooling.

7. TROUBLESHOOTING

If you encounter issues with your Cooler Master V550 power supply, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
System does not power on.	PSU power switch is off. AC power cord is loose or unplugged. Cables to motherboard/components are loose. Faulty wall outlet. PSU protection triggered.	Ensure PSU switch is 'ON' (I). Check AC power cord connection at PSU and wall. Reseat all modular cables (24-pin ATX, EPS, PCIe). Test wall outlet with another device. Unplug PSU for 5 minutes, then retry.
System powers on but shuts down immediately.	Overload or short circuit. Insufficient ventilation/overheating. Faulty component.	Disconnect non-essential components to isolate. Ensure proper case airflow and clean PSU fan. Test components individually if possible.
Unusual noises from PSU.	Fan obstruction or defect. Coil whine (normal under certain loads).	Power off and unplug. Inspect fan for obstructions. If noise persists and system is stable, it might be coil whine.

If the problem persists after attempting these solutions, please contact Cooler Master customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Cooler Master V550 550W 80 Plus Gold Modular Power Supply:

Brand	Cooler Master
Model Name	V550
Model Number	RS550-AFBAG1-UK
Output Power	550 Watts
Efficiency Certification	80 Plus Gold (up to 92% efficiency)
Form Factor	ATX
Cooling Method	Air (Silencio FP fan)
Dimensions (L x W x H)	14 x 15 x 8.6 cm
Modularity	Fully Modular
Compatible Devices	Personal Computer

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Cooler Master website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Cooler Master provides support for their products to ensure customer satisfaction. While specific warranty periods may vary by region, general support for product inquiries and technical assistance is available.

Online Resources: Visit the official Cooler Master website for FAQs, driver downloads, and additional product information: www.coolermaster.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question