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› Cooler Master V750 Gold V2 White Edition 750W Power Supply Unit User Manual

Cooler Master MPY-750V-AGBAG-US

Cooler Master V750 Gold V2 White Edition 750W Power Supply Unit User Manual

Model: MPY-750V-AGBAG-US

1. INTRODUCTION

The Cooler Master V750 Gold V2 White Edition is a full modular 750W power supply unit designed for personal computers. It features 80 Plus Gold efficiency, semi-fanless operation, a 135mm FDB fan, and 16AWG PCIe high-efficiency cables, ensuring stable and reliable power delivery for your system. This manual provides essential information for the proper installation, operation, and maintenance of your power supply unit.

2. KEY FEATURES

- **80 PLUS Gold Certified:** Guarantees a typical efficiency of 90% under normal operating conditions.
- **Performance Driven Topology:** Half-bridge LLC resonant converter and DC-DC technology for reliable and stable voltage outputs.
- **Semi-Fanless Mode with Hybrid Switch:** The 135mm FDB fan operates semi-fanless up to 40% load and can be manually controlled.
- **Full-Modular Cabling:** Reduces clutter, increases airflow, and improves overall efficiency and thermal performance.
- **16 AWG PCI-e Cables:** Thicker cables allow for higher currents, improving efficiency and safety.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition.

- Cooler Master V750 Gold V2 White Edition Power Supply Unit
- Modular Cable Set (various types, including 16 AWG PCIe cables)
- AC Power Cord
- Mounting Screws
- User Manual

- Cable Storage Bag



Image: Cooler Master V750 Gold V2 White Edition Power Supply Unit.

4. SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and disconnected from the main power outlet. Refer to your PC case and motherboard manuals for specific installation guidelines.

1. Mounting the Power Supply:

Place the power supply unit into the designated PSU bay in your PC case. Secure it using the provided mounting screws. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards or upwards depending on case design).

80 PLUS GOLD EFFICIENCY

The rating indicates how much power is retained or lost when transferring from the wall to your components, a typical efficiency of 90% is guaranteed.

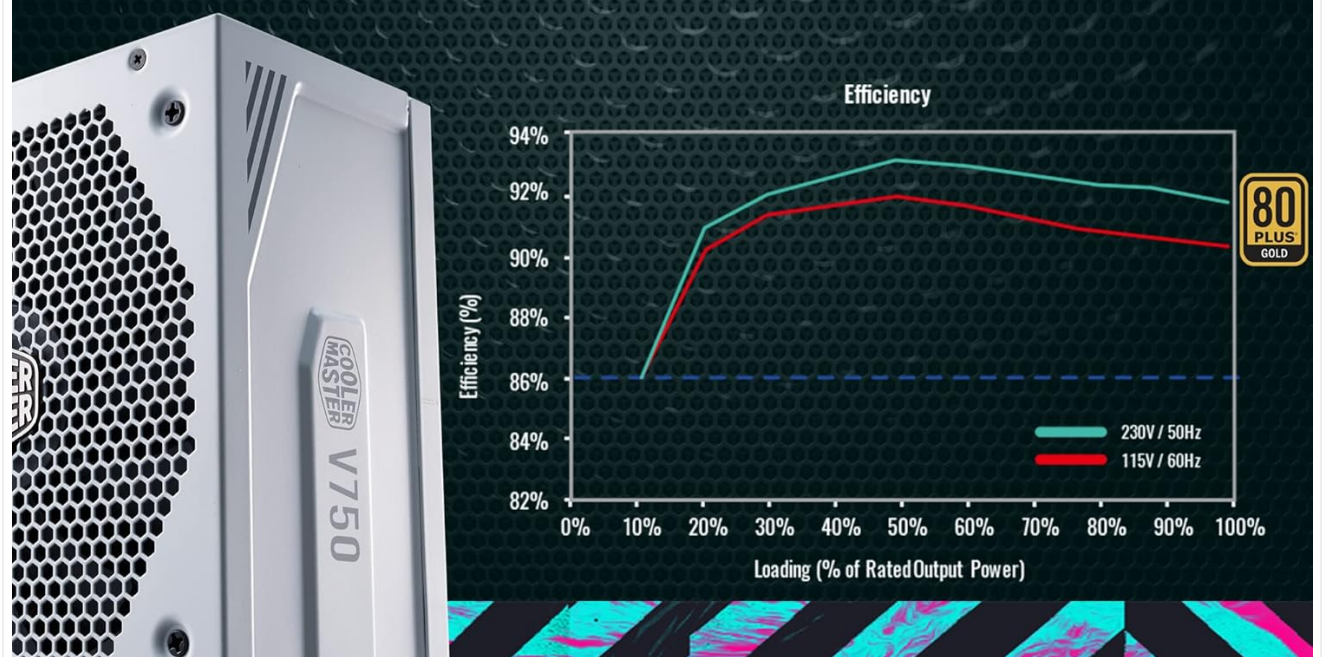


Image: Power Supply Unit mounted in a PC case, showing cable connections.

2. Connecting Modular Cables:

Identify the necessary cables for your motherboard, CPU, graphics card(s), and storage devices. Connect the appropriate modular cables to the power supply unit first, ensuring they are firmly seated. The ports on the PSU are clearly labeled for easy identification.

PCI-E CABLE CONDUCTIVITY

The thicker 16 AWG PCI-e cables allow for higher currents, less heat resistance, and improve overall efficiency and lower ambient temperatures for safer, more stable system operation.



Image: Modular cable connection ports on the power supply unit.

FULL-MODULAR CABLING

Modular cables reduce clutter, increase airflow, and improve overall efficiency and thermal performance.

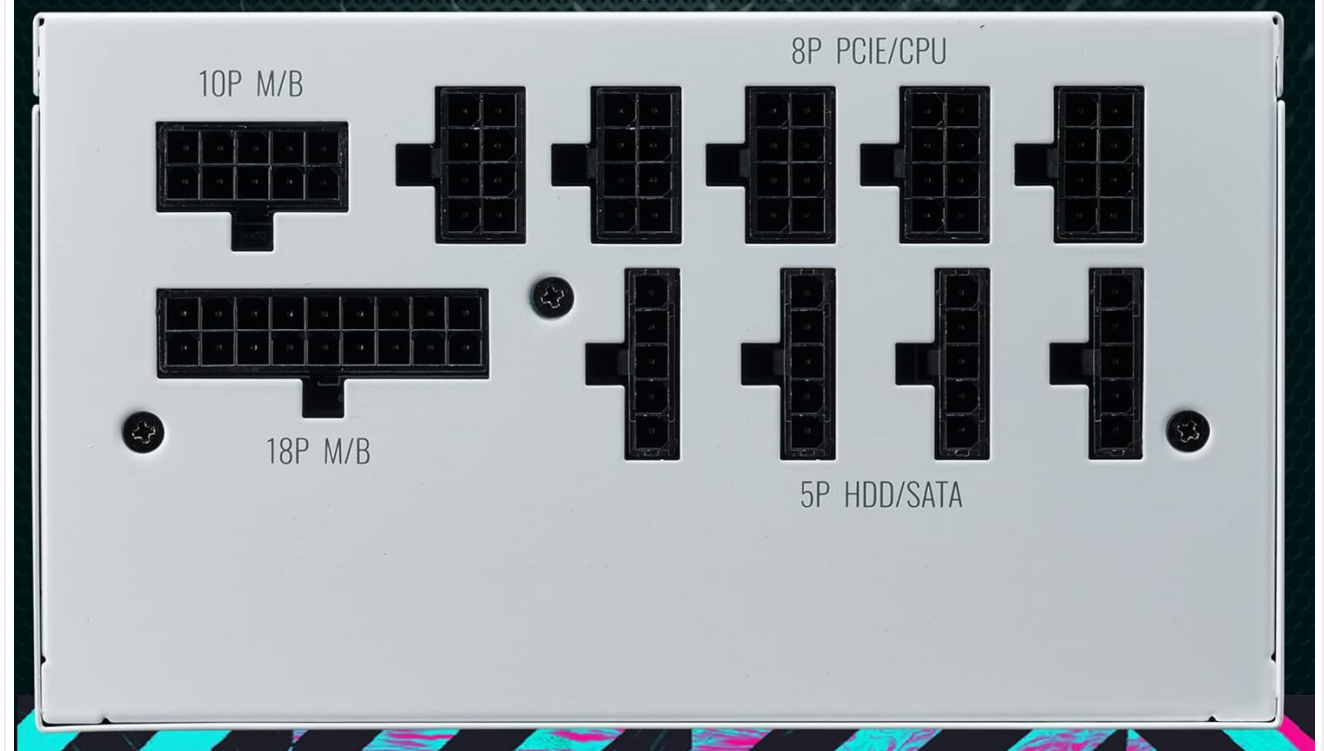


Image: Various modular cables for the power supply unit.

3. Connecting to Components:

Connect the other end of the modular cables to their respective components (motherboard 24-pin, CPU 4+4-pin, PCIe 6+2-pin for graphics cards, SATA for drives, etc.). Ensure all connections are secure.

4. Cable Management:

Route cables neatly to improve airflow and aesthetics within your PC case. Use cable ties or straps if necessary.

5. Power Connection:

Connect the AC power cord to the power supply unit and then to a wall outlet or surge protector.

5. OPERATING INSTRUCTIONS

1. Powering On:

After all connections are made, flip the main power switch on the back of the power supply unit to the "ON" position. Then, power on your computer as usual.



Image: Rear panel of the power supply unit with power switch and hybrid fan switch.

2. Semi-Fanless Mode:

The V750 Gold V2 features a semi-fanless mode where the fan remains off under low load (up to 40% of total wattage) for silent operation. The fan will automatically activate when the load increases or temperature rises.

3. Hybrid Switch:

A physical "Hybrid" switch on the rear of the PSU allows you to toggle the semi-fanless mode. When the switch is in the "ON" position, the fan will operate in semi-fanless mode. When in the "OFF" position, the fan will spin continuously regardless of load, providing maximum cooling.



Image: Illustration of the semi-fanless hybrid switch.

6. MAINTENANCE

- **Dust Cleaning:** Regularly clean dust from the power supply fan and vents using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Inspection:** Periodically check all modular cable connections to ensure they are secure and free from damage.
- **Environmental Conditions:** Operate the power supply in a well-ventilated area, away from excessive heat, humidity, and direct sunlight.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Power supply does not turn on.	AC power cord not connected. Main power switch is OFF. Loose modular cable connections. Faulty power supply or component.	Ensure AC power cord is securely plugged into the PSU and wall outlet. Flip the main power switch on the PSU to the "ON" position. Check all modular cable connections, especially the 24-pin motherboard connector. Test with another power supply or contact support if issues persist.
System powers on but shuts down unexpectedly.	Overload or overheating. Insufficient wattage for components.	Ensure adequate ventilation in the PC case. Verify that the power supply wattage meets the requirements of all installed components. Check for dust buildup in the PSU fan.
Fan is always spinning, even at low load.	Hybrid switch is in the "OFF" position.	Flip the "Hybrid" switch on the rear of the PSU to the "ON" position to enable semi-fanless mode.

8. SPECIFICATIONS

Feature	Detail
Model Name	v750
Brand	Cooler Master
Compatible Devices	Personal Computer
Connector Type	PCI Express
Output Wattage	750.0 W
Form Factor	ATX
Wattage	750 watts
Cooling Method	Air
Item Dimensions (L x W x H)	6.3 x 5.91 x 3.39 inches
Item Weight	4.7 Pounds
Power Supply Design	Full Modular
Number of Fans	1
Fan Size	135 Millimeters
Maximum Input Voltage	240 Volts
Minimum Input Voltage	100 Volts

Feature	Detail
System Bus Connector Type	20+4 Pin
Model Number	MPY-750V-AGBAG-US
Warranty Description	10 Years

9. WARRANTY AND SUPPORT

The Cooler Master V750 Gold V2 White Edition Power Supply Unit comes with a 10-year warranty. For technical support, warranty claims, or further assistance, please visit the official Cooler Master website or contact their customer service department.

Official Cooler Master Website: www.coolermaster.com

10. PRODUCT VIDEOS

Cooler Master V Gold V2 Series Overview

Your browser does not support the video tag.

This video provides an overview of the Cooler Master V Gold V2 series power supply units, highlighting key features such as 80 Plus Gold efficiency, full modular cabling, semi-fanless operation, and high-efficiency cables. It showcases both white and black editions.

