

Cooler Master MWE Gold 750 V2

Cooler Master MWE Gold 750 V2 Full Modular Power Supply Unit Instruction Manual

Model: MWE Gold 750 V2 (MPE-7501-AFAAG-US)

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Cooler Master MWE Gold 750 V2 Full Modular Power Supply Unit. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

The MWE Gold 750 V2 is an 80 PLUS Gold certified power supply designed for high efficiency and reliable power delivery to your computer components. It features a fully modular design, a 120mm Hydro Dynamic Bearing (HDB) fan for quiet operation, and enhanced temperature resilience.

SAFETY INFORMATION

- **Do not open the power supply unit.** High voltages are present inside, even when disconnected from power.
- Ensure the power supply is installed in a well-ventilated area.
- Use only the modular cables provided with this power supply unit. Using incompatible cables may damage the PSU and connected components.
- Before installation or maintenance, always disconnect the AC power cord from the wall outlet and the power supply.
- This product is designed for use in personal computers. Do not use it for any other purpose.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Cooler Master MWE Gold 750 V2 Power Supply Unit
- Modular Cable Set (ATX 24-pin, EPS 4+4-pin, PCIe 6+2-pin, SATA, Peripheral 4-pin)
- AC Power Cord
- Mounting Screws
- User Manual (this document)

SETUP AND INSTALLATION

Follow these steps to properly install your power supply unit into your computer system.

1. Prepare Your System

1. **Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet.
2. **Open Case:** Remove the side panel(s) of your computer case to access the internal components.
3. **Remove Old PSU (if applicable):** Disconnect all cables from your old power supply and remove it from the case.

2. Install the Power Supply Unit

Position the MWE Gold 750 V2 into the power supply mounting bay of your computer case. Ensure the fan faces the correct direction (typically downwards if your case has a bottom vent, or upwards if it's a top-mounted PSU with no bottom vent). Secure the PSU with the provided mounting screws.



Image: Top-down view of the Cooler Master MWE Gold 750 V2 PSU, showing the fan grill and modular cable ports. This image illustrates the physical appearance and connection points of the power supply.

3. Connect Modular Cables

The MWE Gold 750 V2 is fully modular, allowing you to connect only the cables you need. This reduces cable clutter and improves airflow within your case.

TEMPERATURE RESILIENCE

The new generation supports **up to 50°C**, enabling safe, high-performance operation under intense conditions.



Image: Close-up of the modular cable connection panel on the Cooler Master MWE Gold 750 V2. Labels for 10P M/B, 18P M/B, 8P PCIe/CPU, and 5P HDD/SATA ports are visible, indicating where different types of cables connect to the PSU.

- **24-pin ATX Motherboard Cable:** Connect the 24-pin cable to the corresponding port on the PSU and the motherboard.
- **EPS 4+4-pin CPU Cable:** Connect the EPS cable(s) to the PSU and the CPU power connector(s) on your motherboard. The MWE Gold 750 V2 includes two EPS connectors for broad compatibility.
- **PCIe 6+2-pin GPU Cable:** Connect the PCIe cable(s) to the PSU and your graphics card(s). Ensure all required PCIe power connectors on your GPU are utilized.
- **SATA Power Cables:** Connect SATA cables to the PSU and your storage drives (SSDs, HDDs) and optical drives.
- **Peripheral 4-pin (Molex) Cables:** Connect peripheral cables for older components or case fans if needed.



Image: A close-up showing the fully modular cables connected to the power supply unit. This highlights the benefit of modularity in reducing cable clutter and improving system aesthetics and airflow.

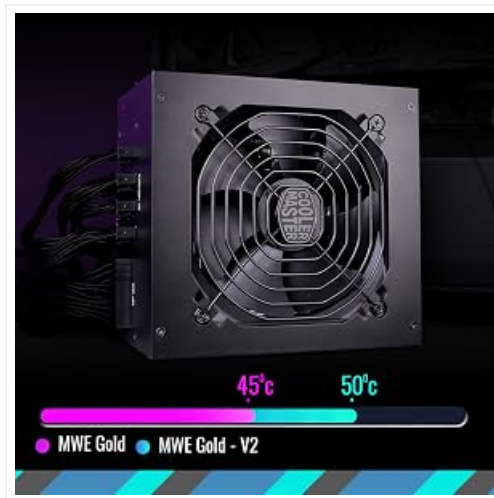


Image: Two EPS (CPU) power connectors labeled "CPU" and "CM-PSU". This image emphasizes the inclusion of multiple EPS connectors for compatibility with modern motherboards, ensuring stable power delivery to the CPU.

4. Final Checks

- Ensure all cables are securely connected to both the PSU and the components.
- Verify that the AC power switch on the back of the PSU is in the "O" (off) position.
- Close your computer case.

OPERATING INSTRUCTIONS

1. **Connect AC Power:** Plug the AC power cord into the power supply and then into a wall outlet or surge protector.
2. **Power On PSU:** Flip the AC power switch on the back of the power supply to the "I" (on) position.
3. **Power On Computer:** Press the power button on your computer case.

The MWE Gold 750 V2 features a 120mm Hydro Dynamic Bearing (HDB) fan designed for quiet operation. The fan speed adjusts automatically based on the power supply's load and temperature to maintain optimal cooling while minimizing noise.



Image: An exploded view of the Cooler Master MWE Gold 750 V2 power supply, highlighting the internal 120mm HDB fan. This illustrates the fan's placement and its role in silent and efficient cooling.

MAINTENANCE

- **Dust Cleaning:** Periodically clean dust from the power supply's fan intake and exhaust vents using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed to prevent obstruction of airflow within the computer case.
- **Environmental Conditions:** Operate the power supply within recommended temperature and humidity ranges. The MWE Gold 750 V2 is designed for high temperature resilience up to 50°C.

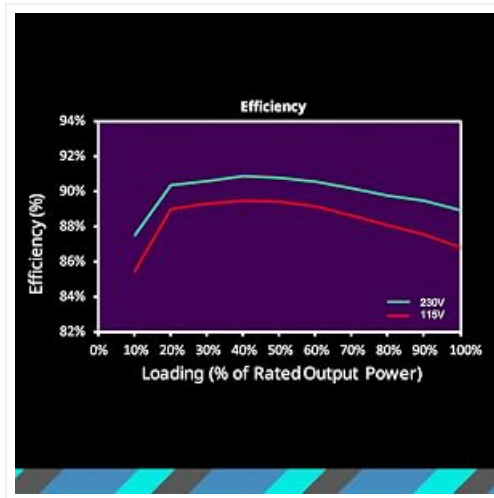


Image: A graphic illustrating the temperature resilience of the MWE Gold V2, showing it can operate safely up to 50°C. This highlights the PSU's robust design for demanding environments.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Computer does not power on.	◦ AC power cord not connected. ◦ PSU switch is off. ◦ Loose cable connections. ◦ Faulty component (motherboard, CPU, etc.).	◦ Ensure AC power cord is securely plugged into PSU and wall outlet. ◦ Flip PSU switch to "I" (on) position. ◦ Check all modular cable connections (24-pin ATX, EPS, PCIe, SATA). ◦ Test components individually if possible.
System powers on but shuts down immediately.	◦ Overload or short circuit. ◦ Overheating. ◦ Faulty component.	◦ Verify total power draw does not exceed 750W. ◦ Check for loose screws or metal objects causing shorts. ◦ Ensure proper ventilation and clean dust from PSU fan. ◦ Disconnect non-essential components to isolate the issue.
Unusual noise from PSU.	◦ Dust accumulation in fan. ◦ Fan bearing issue.	◦ Clean fan and vents with compressed air (power off and unplugged). ◦ If noise persists, contact Cooler Master support.

SPECIFICATIONS

Feature	Detail
Model Name	MWE Gold 750 V2
Model Number	MPE-7501-AFAAG-US
Brand	Cooler Master
Output Wattage	750W
Efficiency Certification	80 PLUS Gold
Form Factor	ATX
Cooling Method	Air (120mm HDB Fan)
Modular Type	Full Modular
EPS Connectors	2
Operating Temperature	Up to 50°C
Product Dimensions (L x W x H)	5.51 x 5.91 x 3.39 inches (140 x 150 x 86 mm)

Feature	Detail
Item Weight	5.9 pounds (2.68 kg)
Input Voltage	100-240V
Input Frequency	50-60Hz



Image: The specification label on the side of the Cooler Master MWE Gold 750 V2 PSU, detailing input/output voltages, currents, total power, and safety certifications. This provides comprehensive electrical data for the unit.

WARRANTY AND SUPPORT

Cooler Master provides a 5-year warranty for the MWE Gold 750 V2 power supply unit. For detailed warranty terms and conditions, please refer to the official Cooler Master website or contact their customer support.

For technical support, product registration, or warranty claims, please visit the official Cooler Master support page: www.coolermaster.com/support/

You can also find additional resources and FAQs on their website.

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.

Name

Anonymous

Email

you@example.com

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