

## Mars Gaming MPB750SI

# Mars Gaming MPB750SI ATX Power Supply 750W User Manual

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Mars Gaming MPB750SI ATX Power Supply. Designed for PC systems, the MPB750SI delivers 750W of stable power with 80 Plus Bronze 230V EU certification, ensuring high efficiency. It features an advanced SI fan with a copper core and FDB bearing for quiet operation, complemented by AI2-RPM intelligent fan control, DC-DC, and SMD technologies for enhanced performance and durability. Please read this manual carefully before use to ensure proper functionality and safety.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to your equipment:

- Ensure the power supply is disconnected from the main power outlet before installation or maintenance.
- Do not open the power supply casing. High voltages are present inside, even when disconnected, and there are no user-serviceable parts.
- Install the power supply in a well-ventilated area, away from heat sources, direct sunlight, and moisture.
- Use only the cables provided with the power supply.
- Ensure all connections are secure before powering on the system.
- The MPB750SI includes multiple electronic protection systems: Over Power Protection (OPP), Over Voltage Protection (OVP), Under Voltage Protection (UVP), Short Circuit Protection (SCP), and Over Current Protection (OCP). These systems are designed to protect your components from electrical anomalies.

## 3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Mars Gaming MPB750SI ATX Power Supply
- AC Power Cord

- Mounting Screws
- Cable Set, including:
  - 1x ATX MB 24 PIN connector
  - 2x EPS +12V 4+4 PIN connectors
  - 2x PCIe 6+2 PIN connectors
  - 5x SATA connectors
  - 3x Molex 4 PIN connectors

AC Input	200-240Vac		5A	47-63Hz	
DC Output Voltage	+3.3V	+5V	+12V	-12V	+5Vsb
Max. Output Current	25A	25A	62A	0.5A	3A
Combined Power	130W		744W	6W	15W
Total Power	750W				

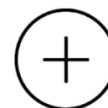
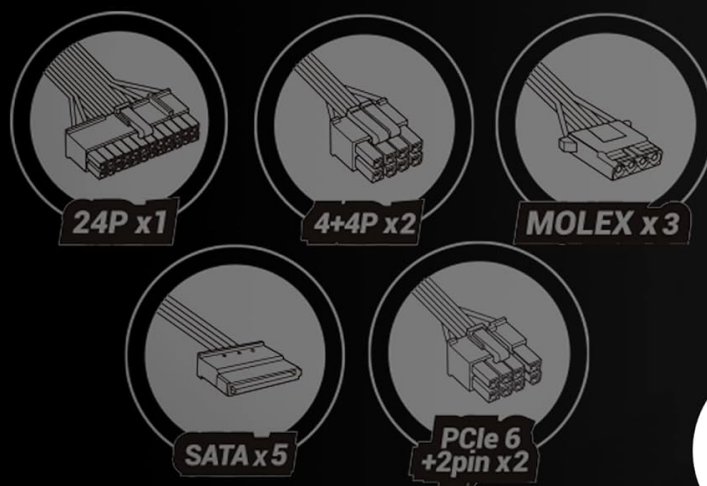


Image: Diagram illustrating the various power connectors included with the MPB750SI power supply, such as 24-pin ATX, 4+4-pin EPS, 6+2-pin PCIe, SATA, and Molex connectors.

## 4. SETUP AND INSTALLATION

Follow these general steps to install the MPB750SI power supply into your PC system:

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your PC case according to its manufacturer's instructions.
2. **Remove Old Power Supply (if applicable):** Disconnect all cables from your old power supply to the

motherboard, graphics card, and other components. Unscrew and remove the old power supply from the case.

3. **Install New Power Supply:** Carefully place the Mars Gaming MPB750SI into the power supply bay of your PC case. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards if there's a bottom vent, or upwards if not). Secure the power supply with the provided mounting screws.

4. **Connect Cables:**

- **Motherboard Power:** Connect the 24-pin ATX connector to your motherboard.
- **CPU Power:** Connect the 4+4-pin EPS +12V connector(s) to your motherboard's CPU power socket(s).
- **Graphics Card Power:** Connect the 6+2-pin PCIe connectors to your graphics card(s) as required.
- **Peripherals:** Connect SATA connectors to SSDs, HDDs, and optical drives. Use Molex connectors for other compatible peripherals.

The MPB750SI features extra-long black flat cables, designed to facilitate clean and professional cable management within any chassis type.

5. **Cable Management:** Route cables neatly to improve airflow and aesthetics. Use cable ties if necessary.
6. **Close Case and Connect Power:** Close your PC case. Connect the AC power cord to the power supply and then to a wall outlet or surge protector.



Image: The Mars Gaming MPB750SI power supply, illustrating its compact form factor and the main AC input port on the rear.

## 5. OPERATING INSTRUCTIONS

Once the power supply is correctly installed and all connections are secure:

1. Ensure the power switch on the back of the power supply is in the 'ON' (I) position.
2. Press the power button on your computer case to start the system.
3. The MPB750SI's SI fan with AI2-RPM intelligent control will automatically adjust its speed based on the system's load and temperature. This technology uses machine learning to maintain an optimal balance between cooling efficiency and silent operation.



Image: A detailed view of the MPB750SI's fan, highlighting its extreme silence design with a copper core and FDB bearing for quiet and efficient cooling.

# AI2-RPM, DC-DC, AND SMD TECHNOLOGIES



Image: A side perspective of the MPB750SI, emphasizing the integration of AI2-RPM, DC-DC, and SMD technologies for advanced performance and reliability.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your power supply, periodic maintenance is recommended:

- **Dust Removal:** Regularly clean the exterior of the power supply and its fan grille to prevent dust buildup. Use compressed air to gently clear dust from the fan blades and internal components through the vents. Ensure the system is powered off and unplugged before cleaning.
- **Ventilation:** Ensure that the PC case has adequate airflow and that the power supply's vents are not obstructed.
- **Cable Inspection:** Periodically check all power cables for any signs of wear, fraying, or loose connections.

## 7. TROUBLESHOOTING

If you encounter issues with your Mars Gaming MPB750SI power supply, refer to the following troubleshooting

steps:

- **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 power supply is in the 'ON' (I) position.
- Test the wall outlet with another device to confirm it has power.
- Verify all internal power connections (24-pin ATX, 4+4-pin EPS) are firmly seated.

- **System Instability/Random Shutdowns:**

- Ensure the power supply is adequately rated for all your system components.
- Check for proper ventilation within the PC case to prevent overheating.
- Verify that all power cables to components (especially graphics cards) are correctly connected.

- **Fan Not Spinning:**

- The AI2-RPM fan control may keep the fan off at low loads for silent operation. The fan will activate as the system load increases.
- Ensure no obstructions are blocking the fan blades.

If issues persist after performing these steps, contact Mars Gaming customer support or consult a qualified technician.

## 8. SPECIFICATIONS

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# 750W POWER



Image: A detailed view of the MPB750SI's specification label, clearly indicating its 750W total power output.



Image: The MPB750SI's label, prominently displaying its 80 Plus Bronze 230V EU certification, signifying high energy efficiency.

Feature	Description
Model	MPB750SI
Form Factor	ATX
Output Wattage	750W
Efficiency	80 Plus Bronze 230V EU (over 90%)
Cooling Method	Air (SI fan with Copper Core, FDB Bearing, AI2-RPM intelligent control)
Technologies	DC-DC, SMD
Protection Systems	OPP, OVP, UVP, SCP, OCP
Product Dimensions (L x W x H)	5.91 x 5.71 x 3.35 inches (15 x 14.5 x 8.5 cm)

Feature	Description
Item Weight	3.52 pounds (1.6 kg)
Connectors	1x ATX MB 24 PIN, 2x EPS +12V 4+4 PIN, 2x PCIe 6+2 PIN, 5x SATA, 3x Molex 4 PIN
Compatible Devices	ATX Motherboards

## 9. WARRANTY AND SUPPORT

The Mars Gaming MPB750SI ATX Power Supply comes with an extended **7-year warranty**, reflecting its quality and reliability. This product has been developed in Europe to meet high standards.

For technical support, warranty claims, or further assistance, please contact your retailer or visit the official Mars Gaming website for contact information. Please retain your proof of purchase for warranty validation.