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## Mars Gaming MPB650SI

# Mars Gaming MPB650SI 650W ATX Power Supply User Manual

Model: MPB650SI

## INTRODUCTION

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The Mars Gaming MPB650SI is a 650W ATX power supply designed for desktop computers. It features an advanced cooling system with an SI fan, FDB bearings, and AI2-RPM smart control for optimal balance between silence and cooling efficiency. This power supply also incorporates DC-DC and SMD technologies for enhanced durability and energy efficiency, holding an 80 Plus Bronze 230V EU certification. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your MPB650SI power supply.

## SAFETY INFORMATION

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Please read all safety instructions before installing or operating the power supply. Failure to do so may result in damage to the unit, other components, or personal injury.

- Ensure the power supply is disconnected from the AC outlet before installation or maintenance.
- Do not open the power supply casing. High voltages are present inside, and there are no user-serviceable parts.
- Install the power supply in a well-ventilated area, away from heat sources and moisture.
- Use only the cables provided with the power supply.
- Ensure all connectors are securely attached to prevent electrical shorts or damage.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- Mars Gaming MPB650SI 650W ATX Power Supply
- AC Power Cord
- Mounting Screws

- User Manual (this document)

## SETUP AND INSTALLATION

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Follow these steps to install your Mars Gaming MPB650SI power supply:

1. **Prepare Your System:** Ensure your computer is completely powered off and unplugged from the wall outlet. Open your computer case.
2. **Remove Old Power Supply (if applicable):** Disconnect all cables from your old power supply to the motherboard, graphics card, drives, and other components. Unscrew and remove the old power supply from the case.
3. **Install New Power Supply:** Carefully place the MPB650SI power supply into the designated power supply bay in your computer 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.



**Figure 1:** The SI fan with copper core, designed for extreme silence and efficient cooling. Ensure proper fan orientation during installation.

#### 4. **Connect Main Power Cables:**

- Connect the 24-pin ATX motherboard power cable to the corresponding port on your motherboard.

- Connect the 4+4-pin EPS +12V CPU power cable to the CPU power port on your motherboard.



**Figure 2:** Overview of available connectors: 1x ATX MB 24 PIN, 1x EPS +12V 4+4 PIN, 2x PCIe 6+2 PIN, 5x SATA, 3x Molex 4 PIN.

- 5. Connect Graphics Card Power:** If your graphics card requires external power, connect the 6+2-pin PCIe power cables from the power supply to your graphics card. The MPB650SI provides two 6+2-pin PCIe connectors.
- 6. Connect Peripheral Power:** Connect SATA power cables to your SSDs, HDDs, and optical drives. Use Molex connectors for any other peripherals that require them.
- 7. Cable Management:** Route cables neatly to improve airflow and aesthetics within your case.
- 8. Close Case and Connect AC Power:** Close your computer case. Connect the AC power cord to the power supply's AC inlet and then plug it into a wall outlet. Ensure the power switch on the power supply is in the OFF position before plugging it in.

## OPERATING INSTRUCTIONS

Operating the Mars Gaming MPB650SI power supply is straightforward:

- 1. Power On:** After all connections are secure and the AC power cord is plugged in, flip the power switch on the

back of the power supply to the ON (I) position.

2. **System Start-up:** Press the power button on your computer case to start your system. The power supply will provide stable power to all connected components.
3. **AI2-RPM Smart Control:** The integrated AI2-RPM technology will automatically adjust the fan speed based on the system's load and temperature. This ensures optimal cooling while maintaining low noise levels.



**Figure 3:** The MPB650SI incorporates AI2-RPM for intelligent fan control, alongside DC-DC and SMD technologies for efficiency and durability.

4. **Power Off:** To shut down your system, use the operating system's shutdown procedure. Once the system is off, you can flip the power switch on the power supply to the OFF (O) position for complete power disconnection.

## MAINTENANCE

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

- **Dust Cleaning:** Periodically (every 3-6 months, depending on environment) disconnect the power supply from the AC outlet and use compressed air to clean dust from the fan and ventilation grilles. Dust accumulation can hinder cooling and reduce efficiency.

- **Ensure Proper Airflow:** Make sure there are no obstructions blocking the air intake or exhaust vents of the power supply. Good airflow is crucial for heat dissipation.
- **Cable Inspection:** Occasionally check all power cables to ensure they are securely connected and not damaged.

## TROUBLESHOOTING

If you encounter issues with your MPB650SI power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
System does not power on.	AC power cord not connected. Power switch on PSU is OFF. Loose internal connections. Faulty power supply or component.	Ensure AC power cord is securely plugged into the PSU and wall outlet. Flip the power switch on the PSU to the ON (I) position. Check all internal power connections (24-pin, 4+4-pin, PCIe, SATA). Test with another known good power supply if possible.
System powers on but shuts down immediately.	Overload protection (OPP) triggered. Short circuit (SCP) detected. Over-voltage (OVP) or Under-voltage (UVP) protection. Over-current (OCP) protection.	Disconnect non-essential components and try again. Check for any loose cables or components that might be causing a short. Ensure all components are compatible and not drawing excessive power. If the issue persists, contact support.
Fan is noisy or not spinning.	Dust accumulation. Fan malfunction. AI2-RPM operating at higher speeds due to load.	Clean the fan and vents with compressed air. Monitor system temperatures and load. If noise is excessive at low loads or fan doesn't spin at all, contact support.

If the problem persists after attempting these solutions, please contact Mars Gaming customer support.

## SPECIFICATIONS

Key technical specifications for the Mars Gaming MPB650SI power supply:

Feature	Detail
Model Name	MPB650SI
Brand	Mars Gaming
Output Wattage	650W
Form Factor	ATX
Efficiency Certification	80 Plus Bronze 230V EU (90% efficiency)

Feature	Detail
Cooling Method	Air (SI Extreme Silence Fan with Copper Core, FDB bearings, AI2-RPM)
Technologies	DC-DC, SMD
Protection Systems	OPP, OVP, UVP, SCP, OCP
Input Voltage	230 Volts (AC)
Dimensions (L x W x H)	5.91 x 5.71 x 3.35 inches (150 x 145 x 85 mm)
Weight	1.5 Kilograms
Connectors	1x ATX MB 24 PIN 1x EPS +12V 4+4 PIN 2x PCIe 6+2 PIN 5x SATA 3x Molex 4 PIN

# 650W POWER

**MARS GAMING**  
GAMERS UNIVERSE

AC Input: 200-240Vac

DC Output Voltage: +3.3V, +5V, 5A, +12V, 47-63Hz

Max. Output Current: 18A, 18A, 54A, -12V, +5Vsb

Combined Power: 100W, 648W, 3.6W, 2.5A

Total Power: 650W, 12.5W

**650W**

**ISO**

**WARNING** Hazardous voltages contained within this power supply. Not user serviceable. Return to service center for repair.  
**PERICOLO** Questa sorgente utilizza alta tensione. Non contiene un elemento riparabile per l'utente. È necessario tornare al centro di assistenza per la riparazione.  
**PELIGRO** Esta fuente utiliza alta tensión. No contiene elemento reparabile por el usuario. Favor servirse para o centro de servicio para reparar.

GEVARRI NIEKUPUJECZENSTWO To źródło wykorzystuje wysokie napięcie. Nie zawiera elementu naprawialnego przez użytkownika. Powrót do centrum serwisowego w celu naprawy. GEVARRI NIEKUPUJECZENSTWO To źródło wykorzystuje wysokie napięcie. Nie zawiera elementu naprawialnego przez użytkownika. Powrót do centrum serwisowego w celu naprawy. GEVARRI NIEKUPUJECZENSTWO To źródło wykorzystuje wysokie napięcie. Nie zawiera elementu naprawialnego przez użytkownika. Powrót do centrum serwisowego w celu naprawy.



Figure 4: Power supply label detailing 650W total power and DC output voltages.

# 80 PLUS BRONZE 230V EU CERTIFICATION

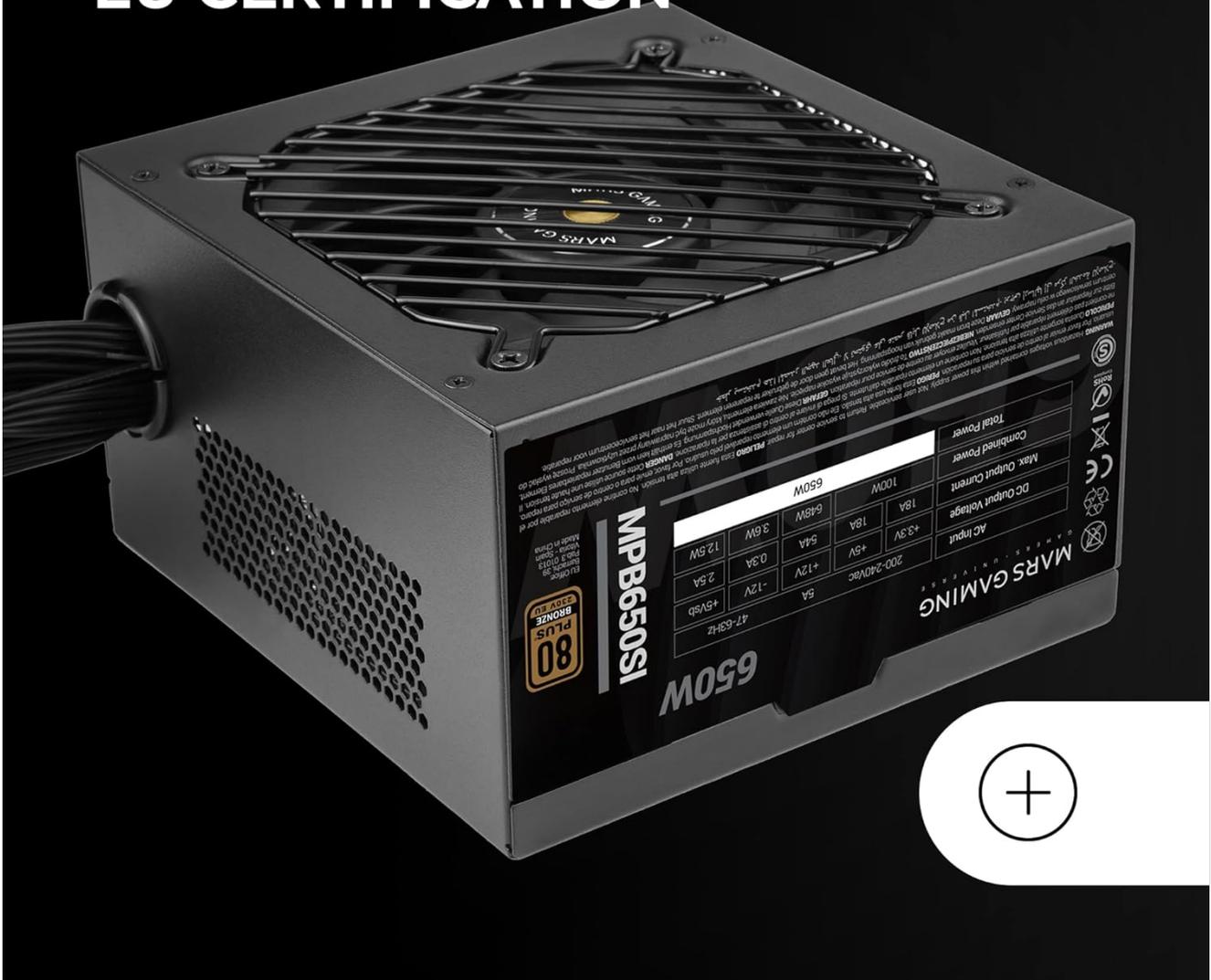


Figure 5: The 80 Plus Bronze 230V EU certification logo, indicating high energy efficiency.

## WARRANTY AND SUPPORT

### Warranty Information

The Mars Gaming MPB650SI power supply comes with an extended **7-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, abuse, misuse, natural disaster, or unauthorized modification. For warranty claims, please retain your proof of purchase. The warranty is subject to the terms and conditions specified by Mars Gaming.

### Customer Support

If you have any questions, require technical assistance, or need to initiate a warranty claim, please contact Mars Gaming customer support through their official website or the retailer where you purchased the product. Please have your product model (MPB650SI) and proof of purchase ready when contacting support. For the most up-to-date support information, visit the official Mars Gaming website: [www.marsgaming.eu](http://www.marsgaming.eu)

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