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ENERMAX Pro82+ EPR425AWT II

ENERMAX Pro82+ EPR425AWT II ATX 425W Power Supply

Instruction Manual

INTRODUCTION

This manual provides essential information for the safe and efficient use of your ENERMAX Pro82+ EPR425AWT II ATX 425W Power Supply. Please read this manual thoroughly before installation and operation to ensure proper functionality and to prevent damage to the unit or other components.

The ENERMAX Pro82+ EPR425AWT II is a high-quality ATX power supply designed to deliver stable and reliable power to your computer system. With a total power output of 425W and 82 Plus efficiency, it is suitable for a wide range of PC builds.

SAFETY INFORMATION

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

- **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.
- Ensure the power supply is disconnected from the AC outlet before installation, removal, or any maintenance.
- Install the power supply in a well-ventilated area. Do not block the fan or ventilation openings.
- Use only the cables provided with the power supply.
- Connect the power supply to a grounded electrical outlet.
- Avoid exposing the unit to moisture, dust, or extreme temperatures.

SETUP AND INSTALLATION

Follow these steps to properly install your ENERMAX Pro82+ EPR425AWT II power supply:

1. **Prepare your PC case:** Ensure your computer case is compatible with ATX power supplies. Remove the old power supply if applicable.
2. **Mount the power supply:** Carefully slide the ENERMAX Pro82+ EPR425AWT II into the power supply bay of your PC case. Secure it with screws from the rear of the case.

3. Connect the motherboard:

- Connect the **24-pin ATX connector** to the main power socket on your motherboard.
- Connect the **4+4-pin CPU connector** (EPS12V) to the CPU power socket on your motherboard.

4. **Connect graphics cards (PCI-E):** If your graphics card requires additional power, connect the **6+2-pin PCI-E 2.0 connectors** to the corresponding sockets on your graphics card. This unit provides two such connectors.

5. Connect storage devices and peripherals:

- Use the **SATA connectors** for SATA hard drives, SSDs, and optical drives. This unit provides five SATA connectors.
- Use the **3-pin Molex connectors** for older peripherals or case fans. This unit provides four Molex connectors.

6. **Cable Management:** Route cables neatly to improve airflow and aesthetics within your case.

7. **Connect AC Power:** Once all internal connections are secure, connect the AC power cord to the power supply and then to a grounded wall outlet.



An image showing the ENERMAX Pro82+ EPR425AWT II ATX 425W power supply unit, featuring its black casing, fan grille, and power input port. This illustrates the compact design and primary external features of the unit.

OPERATING INSTRUCTIONS

After successful installation, the ENERMAX Pro82+ EPR425AWT II power supply operates automatically when your computer is powered on. Key operational aspects include:

- **Efficiency:** The Pro82+ series is rated 82 Plus, indicating high energy efficiency, which reduces heat generation and electricity consumption.
- **Input Voltage:** The power supply supports a wide input voltage range of 100-240V AC at 50-60 Hz, featuring Active PFC for stable power delivery globally.
- **Cooling:** The integrated fan provides active air cooling to maintain optimal operating temperatures. Ensure adequate airflow within your PC case.

Always ensure your system's power requirements do not exceed the power supply's capacity to ensure stable operation and longevity.

MAINTENANCE

Proper maintenance can extend the lifespan of your power supply:

- **Dust Removal:** Periodically clean dust from the power supply's fan and ventilation grilles using compressed air. Ensure the power supply is unplugged from the wall outlet before cleaning.
- **Cable Check:** Occasionally check all power cables to ensure they are securely connected and not damaged.
- **Environment:** Operate the power supply in a clean, dry, and well-ventilated environment to prevent overheating and component degradation.

TROUBLESHOOTING

If you encounter issues with your power supply, consider the following common troubleshooting steps:

- **No Power:**

- Check if the AC power cord is securely plugged into both the power supply and the wall outlet.
- Ensure the power switch on the back of the power supply is in the 'ON' position.
- Verify that the wall outlet is functional by plugging in another device.
- Confirm all internal power connectors (24-pin, CPU, PCI-E, SATA, Molex) are firmly seated.

- **System Instability/Random Shutdowns:**

- This could indicate insufficient power. Ensure your system's total power draw does not exceed the PSU's capacity.
- Check for overheating. Ensure the PSU fan is spinning and not obstructed. Clean any dust buildup.
- Test with minimal components (e.g., only CPU, one RAM stick, no GPU) to isolate the issue.

- **Loud Fan Noise:**

- Dust accumulation can cause fans to become noisy. Clean the fan thoroughly.
- Ensure the power supply is not overloaded, which can cause the fan to spin faster.

If problems persist after performing these steps, contact ENERMAX customer support or a qualified technician.

SPECIFICATIONS

Feature	Detail
Model Name	ENERMAX Pro82+ EPR425AWT II
Form Factor	ATX
Rated Power Output	425W
Peak Power Output	470W
Efficiency	82 Plus
Input Voltage	100-240V AC
Input Frequency	50-60 Hz
PFC	Active PFC
Rated Current	3 Ampere
Cooling Method	Air
Motherboard Connector	24-pin (45 cm)
CPU Connector	4+4-pin (60 cm)
PCI-E Connectors	2x 6+2-pin (45 cm)
SATA Connectors	5x

Feature	Detail
Molex Connectors	4x
Modularity	Modular

WARRANTY INFORMATION

ENERMAX products are covered by a limited warranty. For detailed information regarding the warranty period, terms, and conditions for your Pro82+ EPR425AWT II power supply, please refer to the official ENERMAX website or the warranty card included with your product. Keep your proof of purchase for warranty claims.

Note: Specific warranty terms may vary by region.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or general inquiries, please visit the official ENERMAX support website:

[ENERMAX Support Website](#)

You may also find FAQs and driver downloads on their support page. When contacting support, please have your product model (Pro82+ EPR425AWT II) and serial number ready.