

Enermax EMP600AGT-C

ENERMAX Max Pro II 600W ATX Power Supply User Manual

Model: EMP600AGT-C

INTRODUCTION

The ENERMAX Max Pro II series power supply is designed for the European market, offering low noise and efficient operation. This power supply achieves 88% peak efficiency, certified by 80 PLUS® 230V EU, and features a standby power consumption of less than 0.5 watts, complying with the latest EU eco-design regulations.

It incorporates a 120 mm high-pressure fan with patented Twister Bearing technology for quiet and effective cooling. The SafeGuard multiple safety system provides comprehensive protection against overcurrent, overvoltage, short circuit, undervoltage, overheat, and overpower, ensuring system stability and longevity. Max Pro II power supplies are built for continuous 24-hour operation at ambient temperatures up to 40°C.

SAFETY PRECAUTIONS

- Always disconnect the power supply from the main power outlet before installation or maintenance.
- Do not open the power supply unit. High voltages are present inside, which can be dangerous.
- Ensure proper grounding of your computer system.
- Avoid operating the power supply in high humidity or extreme temperature environments.
- Keep the power supply away from liquids and excessive dust.

SETUP AND INSTALLATION

Follow these steps to properly install your ENERMAX Max Pro II power supply:

1. **Unpack the Power Supply:** Carefully remove the power supply from its packaging and inspect it for any signs of damage.
2. **Mount the Power Supply:** Secure the power supply into the designated bay in your computer case using the provided screws. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards or towards the inside of the case, depending on case design).
3. **Connect Main Power Cables:**
 - Connect the 24-pin ATX main power connector to your motherboard.
 - Connect the 4+4-pin or 8-pin EPS12V CPU power connector to your motherboard.
4. **Connect Peripheral Cables:** Utilize the flat cables for easy installation and clean cable management. Connect

SATA power connectors to your storage drives (HDDs, SSDs) and optical drives. Connect 6+2-pin PCIe power connectors to your graphics card(s) as required.

5. **Verify Connections:** Double-check all connections to ensure they are firmly seated. Loose connections can cause system instability or damage.
6. **Connect to Wall Outlet:** Once all internal connections are secure, connect the AC power cord to the power supply and then to a grounded wall outlet.



Figure 1: Front view of the ENERMAX Max Pro II 600W Power Supply, showing the fan grille and branding.



Figure 2: Side view of the power supply, illustrating the flat cable design for improved cable management.

OPERATING INSTRUCTIONS

The ENERMAX Max Pro II is designed for reliable and efficient operation:

- **Power On:** After installation, turn on your computer system. The power supply will automatically begin operation.
- **Efficiency:** The unit operates with up to 88% efficiency at 230VAC between 20% and 100% load, reducing energy waste and heat generation.
- **Cooling System:** The integrated 120mm fan with patented Twister Bearing technology and Smart Airflow Control (SAC) ensures quiet operation, maintaining fan noise at approximately 14dB(A) up to 40% system load.
- **Continuous Operation:** This power supply is engineered for 24-hour continuous operation at an ambient temperature of 40°C, providing consistent performance for demanding systems.
- **Energy Saving:** Supports Intel® ATX12V v2.3 and the C6/C7 energy-saving functions of Intel® processors (first introduced with the Haswell™ generation), contributing to lower power consumption in idle states.

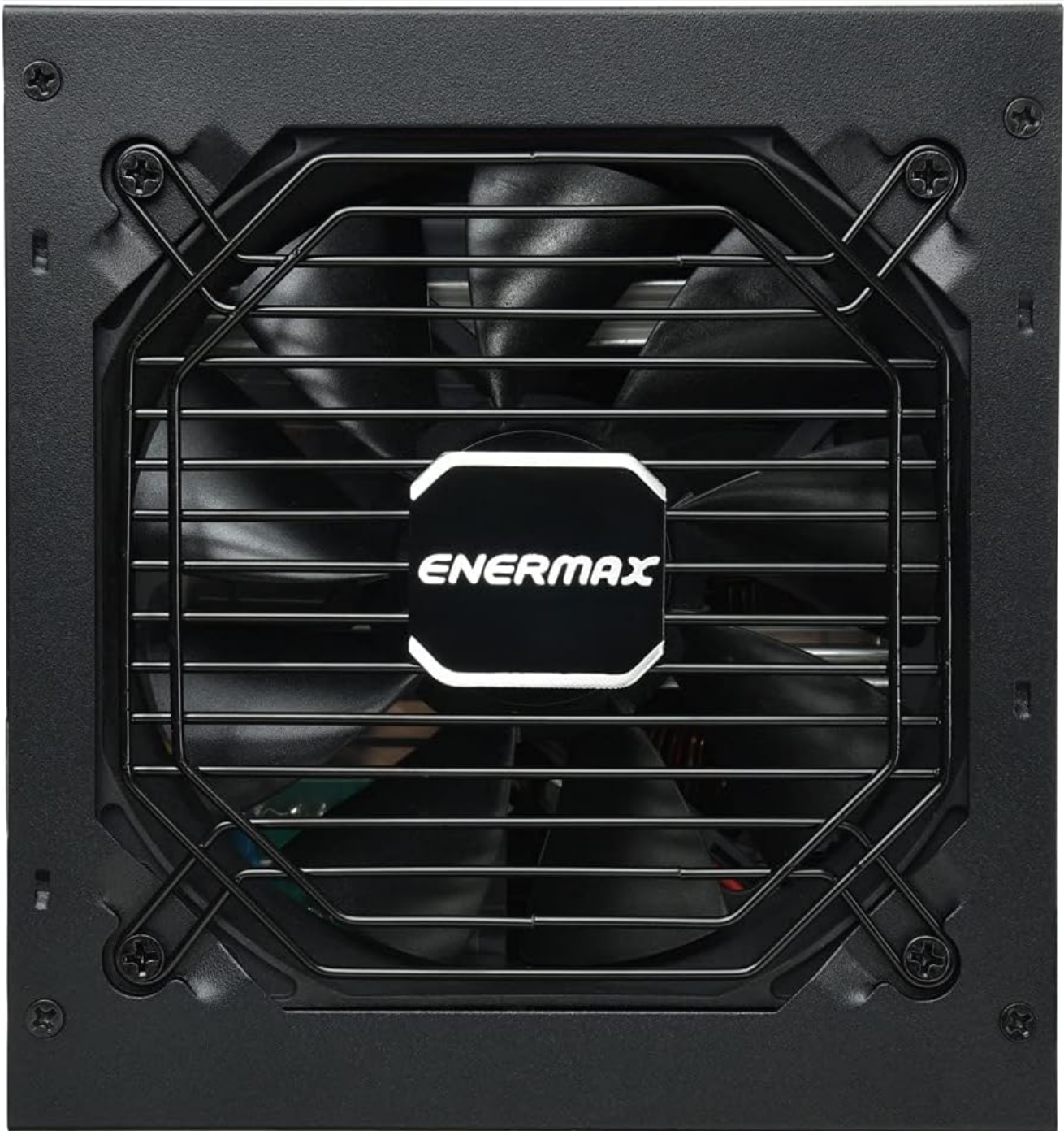


Figure 3: Top-down view of the 120mm fan, highlighting the Twister Bearing technology for quiet and efficient cooling.

MAINTENANCE

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

- **Dust Removal:** Periodically clean the exterior of the power supply and the fan grille to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air or a soft brush. Ensure the power supply is disconnected from the mains before cleaning.
- **Ensure Proper Airflow:** Make sure that the air vents of your computer case are not obstructed. Good airflow within the case is crucial for the power supply's cooling system.
- **Environmental Conditions:** Operate the power supply within recommended temperature and humidity ranges. Avoid placing your computer in direct sunlight or near heat sources.

TROUBLESHOOTING

If you encounter issues with your ENERMAX Max Pro II power supply, consider 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' position.
 - Verify that the wall outlet is functional by plugging in another device.
 - Confirm all internal power connectors (24-pin ATX, EPS12V, PCIe) are correctly and firmly seated.
- **System Instability/Random Shutdowns:**
 - This could indicate an overloaded power supply or a component issue. Ensure your system's power requirements do not exceed the PSU's capacity.
 - The SafeGuard multiple safety system (OVP, UVP, OPP, SCP, OCP, OTP) will protect the system from damage in case of electrical anomalies. If the PSU shuts down, it might be due to one of these protections activating.
 - Check for proper ventilation within the PC case to prevent overheating.
- **Unusual Noises:** While the fan is designed for quiet operation, excessive or unusual noises might indicate a problem. Ensure no cables are obstructing the fan blades. If the noise persists, contact support.

SPECIFICATIONS

Feature	Value
Brand	Enermax
Model Name	MAXPRO II
Model Number	EMP600AGT-C
Output Power	600 Watts
Form Factor	ATX
Connector Type	ATX
Cooling Method	Air
Item Dimensions (L x W x H)	15 x 14 x 8.6 centimeters
Item Weight	1.6 Kilograms
Color	Black
Compatible Devices	PC
Efficiency Certification	80 PLUS 230V EU (up to 88% peak efficiency)
Safety Features	SafeGuard (OVP, UVP, OPP, SCP, OCP, OTP)

WARRANTY AND SUPPORT

Warranty: The ENERMAX Max Pro II power supply typically comes with a 3-year manufacturer's warranty. Please refer to your purchase documentation for specific terms and conditions.

Customer Support: For technical assistance, warranty claims, or further inquiries, please visit the official Enermax website or contact their customer support department. Ensure you have your product model number (EMP600AGT-C) and proof of purchase available when contacting support.

VIDEO RESOURCES

No official product videos from the seller were found in the provided data. For additional visual guides or product information, please check the official Enermax website or authorized retailers.
