

Antec EA-430D GREEN

Antec EarthWatts EA-430D Green Power Supply User Manual

Model: EA-430D GREEN

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Antec EarthWatts EA-430D Green Power Supply. Designed for efficiency and reliability, this 430-watt power supply meets 80 PLUS BRONZE certification standards, ensuring energy savings and reduced heat output. Please read this manual thoroughly before installation to ensure proper setup and safe operation.

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 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 to prevent overheating.
- Use only the provided or compatible cables. Incorrect cable usage can cause damage.
- Protect the power supply from moisture and extreme temperatures.
- This power supply is designed for use with personal computers. Do not use it for other applications.

3. PRODUCT FEATURES

The Antec EarthWatts EA-430D Green Power Supply offers a range of features designed for optimal performance and energy efficiency:

- **Continuous Power:** Delivers 430 watts of reliable, continuous power.
- **80 PLUS BRONZE Certified:** Achieves at least 82% energy efficiency, reducing electricity consumption and heat generation.
- **Universal Input:** Automatically connects to any power grid worldwide (90-240 VAC) without manual adjustment.
- **Advanced Protection Circuitry:** Industrial-grade protection against short circuits, power overloads, overvoltage, and other electrical hazards.

- **Quiet Cooling:** Features an 80mm low-noise cooling fan for efficient heat dissipation.
- **Dual +12V Output Circuits:** Provides enhanced system stability and safety.
- **Active Power Factor Correction (PFC):** Ensures a power factor of up to 99%, improving efficiency and reducing transmission losses.
- **Comprehensive Connectors:** Includes 20+4 pin ATX, 8-pin (4+4) EPS, 6-pin PCI-E, 5 SATA, 4 Molex, and 1 Floppy connector for broad compatibility.

4. SETUP AND INSTALLATION

Follow these steps to properly install your Antec EarthWatts EA-430D Green 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 slide the Antec EA-430D Green into the power supply bay of your computer case. Secure it with the appropriate screws.
4. **Connect Main Power:** Connect the 20+4 pin ATX connector to your motherboard's main power socket. Ensure it clicks into place.
5. **Connect CPU Power:** Connect the 8-pin (4+4) EPS connector to your motherboard's CPU power socket.
6. **Connect Graphics Card (if applicable):** If your graphics card requires external power, connect the 6-pin PCI-E connector.
7. **Connect Drives:** Use the SATA power connectors for SATA hard drives and SSDs. Use Molex connectors for older drives or case fans as needed.
8. **Cable Management:** Route cables neatly to improve airflow and aesthetics within your case.
9. **Close Case and Connect Power:** Close your computer case. Connect your existing AC power cord to the power supply's input socket and then plug it into a wall outlet. Note: This power supply does not include an AC cord to promote reuse and reduce waste.



Figure 1: Rear view of the power supply, highlighting the power input, fan, and power switch. This is where the AC power cord connects.



Figure 2: Side view of the power supply, illustrating the ventilation grille and the bundled output cables for connecting to internal components.

5. OPERATION

Once installed, the Antec EarthWatts EA-430D Green Power Supply operates automatically. Its Universal Input feature allows it to adapt to various power grids globally (90-240 VAC). The 80mm fan will activate as needed to maintain optimal operating temperatures. The 80 PLUS BRONZE certification ensures efficient power delivery, minimizing wasted energy and heat.



Figure 3: Front/side view of the power supply, showcasing its compact design and the green finish.

6. MAINTENANCE

The Antec EarthWatts EA-430D Green Power Supply is designed for minimal maintenance. However, regular checks can prolong its lifespan:

- **Dust Removal:** Periodically clean dust from the power supply's fan and ventilation grilles using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Cable Check:** Ensure all power cables are securely connected and not obstructing airflow.
- **Environment:** Operate the power supply in a clean, dry, and well-ventilated environment.

7. TROUBLESHOOTING

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

- **No Power:**
 - Ensure the AC power cord is securely plugged into both the power supply and the wall outlet.
 - Check the power switch on the back of the power supply is in the 'ON' position.
 - Verify all internal power connectors (20+4 pin ATX, EPS, PCI-E, SATA) are firmly seated.
 - Test the wall outlet with another device to ensure it has power.

- **System Instability/Random Shutdowns:**
 - Ensure adequate ventilation within the computer case. Overheating can cause instability.
 - Verify that the power supply's wattage is sufficient for all your components.
 - Check for any loose cable connections.
- **Loud Fan Noise:**
 - Clean any dust buildup from the fan blades and grilles.
 - Ensure the power supply is not obstructed, allowing for proper airflow.

If problems persist after following these steps, contact Antec customer support.

8. SPECIFICATIONS

Feature	Detail
Model	EA-430D GREEN
Continuous Power	430 Watts
Efficiency Certification	80 PLUS BRONZE
Input Voltage	90-240 VAC (Universal Input)
Cooling Method	80mm Low-Noise Fan
Dimensions (H x W x D)	3.4" x 5.9" x 5.5" (86.4mm x 149.9mm x 139.7mm)
Weight	4.25 pounds (1.93 kg)
Connectors	20+4 pin ATX, 8-pin (4+4) EPS, 6-pin PCI-E, 5 SATA, 4 Molex, 1 Floppy
Protection Circuitry	SCP, OVP, OPP (Short Circuit, Over Voltage, Over Power Protection)

9. WARRANTY AND SUPPORT

The Antec EarthWatts EA-430D Green PC Power Supply is backed by a **three-year manufacturer's limited warranty**. For warranty claims or technical support, please visit the official Antec website or contact their customer service department. Keep your proof of purchase for warranty validation. For additional resources, you may refer to the official [User Guide \(PDF\)](#).

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

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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