

Minuteman EN450G

Minuteman EN450G 450VA Standby UPS User Manual

Model: EN450G

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Minuteman EN450G 450VA Standby Uninterruptible Power Supply (UPS). The EN450G is designed to provide reliable backup power and surge protection for various electronic devices, including gaming consoles, desktop PCs, home office equipment, and network devices. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of electric shock, fire, or injury to persons, read all instructions before using this product.

- This UPS contains hazardous voltages. Do not attempt to disassemble the unit. Servicing should be performed by qualified service personnel only.
- Do not connect non-computer-related items such as medical equipment, life support equipment, microwave ovens, or vacuum cleaners to the UPS.
- Do not block ventilation openings. Ensure adequate airflow around the unit.
- Do not install the UPS in direct sunlight, near heat sources, or in areas with excessive dust, moisture, or flammable liquids.
- Connect the UPS to a properly grounded AC power outlet.
- The battery is hot-swappable. Exercise caution when replacing the battery. Refer to the Maintenance section for instructions.
- In case of emergency, press the power button to turn off the UPS and disconnect the power cord from the AC power outlet.

3. PRODUCT OVERVIEW

The Minuteman EN450G UPS provides comprehensive power protection. Familiarize yourself with its components:



Figure 1: Minuteman EN450G UPS Unit. This image displays the Minuteman EN450G UPS unit. The front panel features the 'Minuteman Power Technologies' logo, two USB charging ports, and control buttons. The top surface shows four 'Battery & Surge' protected outlets and four 'Surge Only' outlets, clearly labeled. The unit is black and designed for compact placement.

3.1 Front Panel Features

- **Power Button:** Turns the UPS on or off.
- **USB Charging Ports:** Two ports for charging mobile devices.
- **Status Indicators:** LEDs indicating power status, battery status, and fault conditions.

3.2 Rear Panel Features

- **Battery & Surge Outlets (x4):** Provide battery backup power and surge protection for critical devices.
- **Surge Only Outlets (x4):** Provide surge protection only for non-critical devices.
- **AC Input:** Connects the UPS to the wall power outlet.
- **Circuit Breaker:** Resettable overload protection.

4. SETUP AND INSTALLATION

4.1 Unpacking

Carefully unpack the UPS and inspect it for any shipping damage. If damage is found, do not operate the unit and contact your dealer.

4.2 Placement

The EN450G is designed for versatile placement:

- **Desktop:** Place the unit on a stable, flat surface.

- **Floor:** Position on the floor, ensuring ventilation is not obstructed.
- **Wall Mount:** The unit can be mounted on a wall using appropriate hardware (not included). Ensure the mounting surface can support the weight of the UPS.

Ensure the installation area is clean, dry, and has adequate ventilation. Avoid placing the UPS near heat-emitting appliances or in direct sunlight.

4.3 Connecting to Power

1. Ensure the UPS is turned off.
2. Plug the UPS power cord into a grounded 120V AC wall outlet.
3. Allow the UPS to charge for at least 8 hours before initial use to ensure optimal battery runtime.

4.4 Connecting Devices

- **Battery & Surge Protected Outlets:** Connect critical devices such as your computer, monitor, router, or other essential electronics that require continuous power during outages.
- **Surge Only Outlets:** Connect non-critical devices like printers, scanners, or desk lamps that only require surge protection.

CAUTION: Do not connect laser printers or shredders to the battery backup outlets, as their high power draw can overload the UPS.

5. OPERATION

5.1 Turning the UPS On/Off

- **To Turn On:** Press and hold the power button for approximately 2 seconds until you hear a beep and the power indicator illuminates.
- **To Turn Off:** Press and hold the power button for approximately 2 seconds until you hear a beep and the power indicator turns off.

5.2 Status Indicators

The front panel LEDs provide information about the UPS status:

- **Green LED (Solid):** UPS is operating normally, providing AC power.
- **Green LED (Flashing) & Audible Alarm:** UPS is operating on battery power during an outage.
- **Red LED (Solid) & Audible Alarm:** Battery low or fault condition. Refer to Troubleshooting.

5.3 Battery Runtime

The EN450G provides approximately 3 minutes of runtime at full load (450VA/255W) and 11 minutes at half load. Actual runtime may vary based on connected equipment and battery age.

6. MAINTENANCE

6.1 Battery Replacement

The EN450G features a hot-swappable Sealed Lead Acid (SLA) battery, allowing replacement without interrupting power to connected devices. Batteries typically last 3-5 years depending on usage and environmental conditions. A flashing red LED or continuous alarm may indicate a need for battery replacement.

1. Ensure the UPS is connected to AC power and operating normally.

2. Locate the battery access panel (refer to product diagram if available).
3. Carefully slide out the old battery pack.
4. Insert the new, fully charged replacement battery pack, ensuring correct orientation.
5. Secure the battery access panel.
6. Allow the new battery to charge for 8-12 hours to reach full capacity.

WARNING: Use only approved replacement batteries. Improper battery replacement can result in fire or explosion. Dispose of old batteries properly at a recycling facility.

6.2 Cleaning

Periodically clean the exterior of the UPS with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings remain clear of dust and debris.

7. TROUBLESHOOTING

This section addresses common issues you may encounter with the EN450G UPS. If a problem persists after attempting the solutions below, contact technical support.

Problem	Possible Cause	Solution
UPS does not turn on.	Battery not connected or discharged. Power cord not connected.	Ensure battery is properly connected and charged. Verify power cord is securely plugged into wall outlet and UPS.
UPS beeps continuously or red LED is solid.	Battery low or fault condition. Overload on battery outlets.	Allow battery to charge. If problem persists, battery may need replacement. Disconnect non-essential devices from battery outlets. Check circuit breaker.
UPS operates on battery frequently.	Unstable incoming AC power. UPS sensitivity setting (if applicable, though not specified for this model).	Check the quality of your incoming AC power. Consider connecting to a different outlet.
No power from surge-only outlets.	Circuit breaker tripped.	Press the circuit breaker reset button on the rear panel. Reduce load if necessary.

8. SPECIFICATIONS

Feature	Detail
Model	EN450G
Capacity	450VA / 255W
Input/Output Voltage	120V AC
Output Waveform	Simulated Sine Wave
Outlets	4 x Battery & Surge Protected, 4 x Surge Only
Battery Type	Sealed Lead Acid (SLA), Hot-Swappable

Feature	Detail
Typical Runtime (Full Load)	Up to 3 minutes
Typical Runtime (Half Load)	Up to 11 minutes
Dimensions (D x W x H)	12.8 x 5.7 x 4.1 inches (32.5 x 14.5 x 10.4 cm)
Weight	4.4 pounds (2 kg)
Mounting Options	Desktop, Floor, Wall Mount

9. WARRANTY INFORMATION



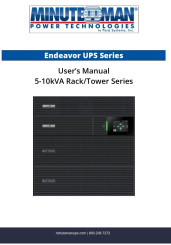
Please refer to the warranty card included with your product or visit the manufacturer's website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.




10. TECHNICAL SUPPORT

If you require technical assistance or have questions regarding your Minuteman EN450G UPS, please contact your dealer or the manufacturer's customer support. Have your model number (EN450G) and serial number ready when contacting support.

For more information, you may visit the official Minuteman website.

Related Documents - EN450G

	<p>Minuteman Ensfire Series UPS User Manual (EN450G, EN600GU, EN750G)</p> <p>This comprehensive user manual for the Minuteman Ensfire Series UPS (models EN450G, EN600GU, EN750G) provides essential guidance on installation, operation, safety, troubleshooting, and specifications for reliable power protection.</p>
	<p>MINUTEMAN Ensfire Series UPS EN350 / EN550 User's Manual</p> <p>Comprehensive user's manual for the MINUTEMAN Ensfire Series UPS models EN350 and EN550. Provides detailed information on installation, operation, controls, indicators, troubleshooting, battery replacement, specifications, warranty, and conformity declarations.</p>
	<p>Minuteman Endeavor UPS Series User's Manual 5-10kVA Rack/Tower</p> <p>User's manual for the Minuteman Endeavor UPS Series, covering 5-10kVA Rack/Tower models. Provides installation, configuration, operation, and troubleshooting instructions for power protection.</p>

	<p>Minuteman UPS Quick Reference Guide</p> <p>Quick reference guide detailing features and specifications for Minuteman Power Technologies' range of UPS systems, including Entry Level, Rackmount (EXR Series), and Online (Encompass, Endeavor, ED6/10KTF Series) UPS units. Compares models, UPS topology, load capacity, output signals, receptacles, and other key features.</p>
	<p>Minuteman SV Online Series UPS User's Manual</p> <p>Comprehensive user manual for the Minuteman SV Online Series UPS, detailing installation, operation, safety, maintenance, and specifications. Covers models from 1kVA to 3kVA.</p>
	<p>MINUTEMAN Endurance Series UPS User's Manual - Installation & Operation Guide</p> <p>Comprehensive user's manual for the MINUTEMAN Endurance Series UPS. Learn about installation, setup, operation, maintenance, and troubleshooting for models END1000RT2U-L, END1500RT2U-L, END2000RT2U-L, and END3000RT2U-L. Ensure reliable power protection for your critical equipment.</p>