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› [TRIPP LITE](#) /

› [Tripp Lite 700VA UPS Battery Backup Surge Protector \(AVR700U\) Instruction Manual](#)

TRIPP LITE AVR700U

Tripp Lite AVR700U 700VA UPS Battery Backup Surge Protector Instruction Manual

1. INTRODUCTION

The Tripp Lite AVR700U is a 700VA/350W/120V Uninterruptible Power Supply (UPS) system designed to provide reliable battery backup and AC power protection. It safeguards connected electronics against blackouts, brownouts, overvoltages, surges, and line noise. This unit is suitable for protecting home office equipment, media centers, and various commercial components such as computers, routers, printers, HDTVs, and security systems.

The AVR700U features Automatic Voltage Regulation (AVR) to correct voltage fluctuations without using battery power, extending battery life. It also includes surge suppression and EMI/RFI line noise filtering to ensure clean, stable power for your devices.

2. SAFETY INFORMATION

Please read and follow all safety instructions before installing or operating this equipment. Keep this manual for future reference.

- Do not open the UPS housing. There are no user-serviceable parts inside except for the battery.
- Do not connect non-computer-related items like power strips or surge suppressors to the UPS outlets.
- Ensure the UPS is connected to a properly grounded AC power outlet.
- Avoid installing the UPS in areas with excessive moisture, heat, or dust.
- Disconnect the UPS from the AC power outlet before performing any maintenance or battery replacement.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- AVR700U UPS System
- USB cable
- Instruction manual (this document)

4. PRODUCT FEATURES

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- **700VA/350W Capacity:** Provides battery backup for an energy-efficient desktop PC and small monitor for up to 43 minutes.
 - **Automatic Voltage Regulation (AVR):** Corrects brownouts as low as 89V and overvoltages as high as 145V back to a nominal 120V without using battery power.
 - **8 NEMA 5-15R Outlets:** Four outlets provide battery backup and surge protection, while the other four offer surge protection only.
 - **Surge Protection:** 316 joules of surge suppression protects connected components from harmful power surges.
 - **Dataline Protection:** RJ45 ports protect a standard dial-up/phone connection or 10Mb Ethernet line from data line surges.
 - **EMI/RFI Filtering:** Filters out disruptive line noise that can cause performance problems and hardware damage.
 - **USB Communication Port:** Connects to a computer for unattended file saves and system shutdown using free PowerAlert software.
 - **User-Replaceable Battery:** Features a replaceable internal battery (Tripp Lite RBC51 model) to extend the UPS lifespan.
 - **Compact Design:** Space-saving ABS housing with keyhole mounting tabs for desktop or wall-mount installation.

5. SETUP

5.1 Initial Placement and Connection

Place the AVR700U in a cool, dry indoor environment, away from direct sunlight, excessive heat, or moisture. Ensure adequate airflow around the unit.



Image: Front and top view of the Tripp Lite AVR700U UPS, showing the layout of outlets and indicators.

Plug the UPS power cord into a grounded 120V AC outlet. Allow the UPS to charge for 24 hours before initial use to ensure maximum runtime capacity.

5.2 Connecting Equipment

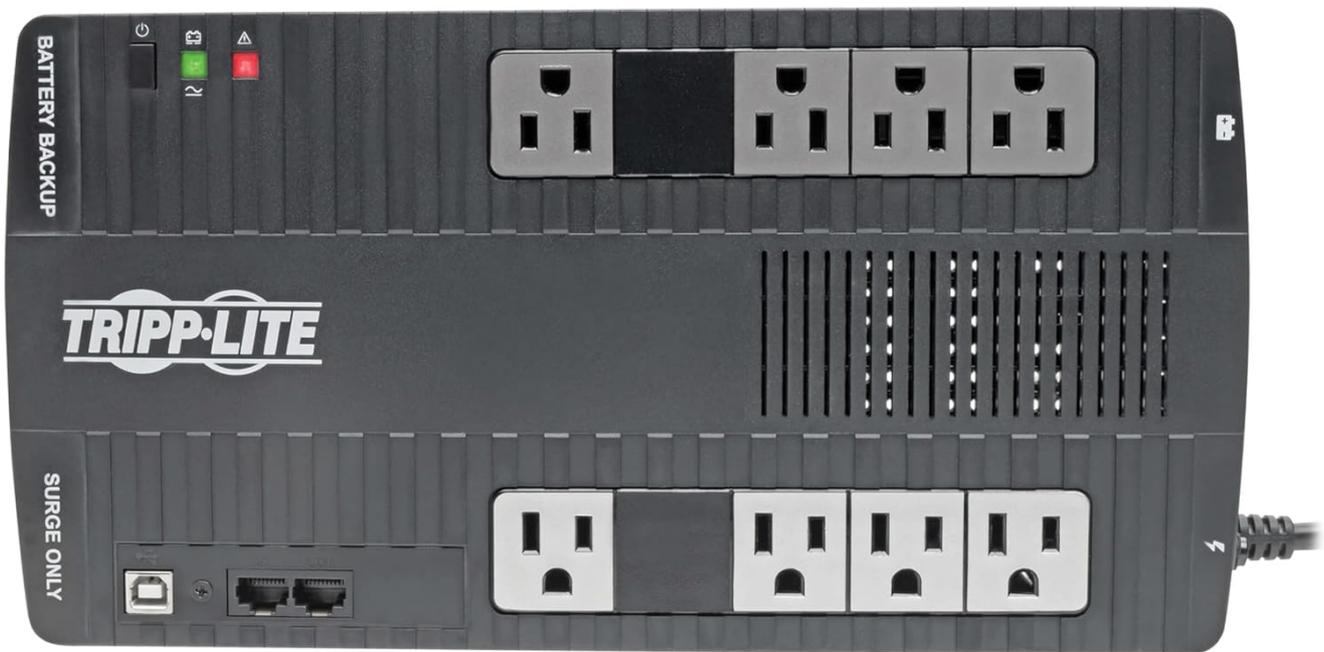


Image: Top-down view of the Tripp Lite AVR700U UPS, clearly showing the 'Battery Backup' and 'Surge Only' outlets, along with the USB and RJ45 ports.

- **Battery Backup & Surge Protection Outlets:** Connect your critical equipment, such as computers, monitors, and routers, to the four outlets labeled "BATTERY BACKUP." These outlets provide continuous power during outages and protection against surges.
- **Surge Only Outlets:** Connect non-essential devices like printers, speakers, or desk lamps to the four outlets labeled "SURGE ONLY." These outlets provide surge protection but will not supply power during an outage.

5.3 USB Communication Port

Connect the included USB cable from the UPS USB port to a USB port on your computer. Download and install Tripp Lite's free PowerAlert software from the official Tripp Lite website. This software enables safe, unattended file saves and system shutdowns in the event of a prolonged power failure.

5.4 Dataline Protection

To protect a standard dial-up/phone connection or 10Mb Ethernet line from surges, connect your incoming line to the "IN" RJ45 port on the UPS and then connect a cable from the "OUT" RJ45 port to your device (e.g., modem, network card).

5.5 Wall-Mount Installation



Image: Bottom view of the Tripp Lite AVR700U UPS, showing the keyhole mounting tabs for wall installation.

The UPS features keyhole mounting tabs on the rear for optional wall-mount installation. Ensure the mounting surface is sturdy enough to support the weight of the UPS and connected equipment.

6. OPERATION

6.1 Powering On/Off

To turn the UPS on, press and hold the power button until the unit beeps. To turn it off, press and hold the power button again until the unit beeps and the indicators turn off.

6.2 LED Indicators and Alarms

The front panel features LED indicators that provide status information:

- **Green LED (Line Mode):** Indicates the UPS is operating on utility power and providing conditioned AC power to connected devices.
- **Yellow LED (Battery Mode):** Illuminates when the UPS is operating on battery power during a blackout or severe voltage fluctuation.
- **Red LED (Fault/Overload/Replace Battery):** Indicates a fault condition, an overload, or that the battery needs replacement. Refer to the troubleshooting section for details.

The UPS remains silent during normal line and battery backup modes. Alarms sound only for low battery, battery replacement, overload, or fault conditions.

6.3 Automatic Voltage Regulation (AVR)

The AVR feature automatically corrects incoming utility voltage fluctuations (brownouts and overvoltages) to a safe 120V output without switching to battery power. This protects your equipment from incremental hardware damage and ensures stable operation.

6.4 Battery Backup Function

During a power outage, the UPS automatically switches to battery power, providing continuous power to devices connected to the "BATTERY BACKUP" outlets. This allows you time to save work and safely shut down your systems.

6.5 PowerAlert Software

When connected via USB and with PowerAlert software installed, your computer can communicate with the UPS. This enables automatic, graceful shutdowns of your operating system and applications during extended power outages, preventing data loss.

6.6 Product Overview Video

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Video: A general overview of the Tripp Lite UPS system, demonstrating its features and basic setup.

7. MAINTENANCE

7.1 Battery Replacement

The internal battery is user-replaceable. When the Red LED indicates a battery issue, or if the battery runtime significantly decreases, it may be time to replace the battery. Use Tripp Lite's RBC51 replacement battery model.



Image: Side view of the Tripp Lite AVR700U UPS, showing the circuit breaker reset button and grounding screw.

Procedure:

1. Turn off the UPS and disconnect it from the AC power outlet.
2. Disconnect all connected equipment from the UPS.
3. Locate the battery compartment access panel (usually on the bottom or side).
4. Remove the screws or clips securing the panel and carefully slide out the old battery.
5. Disconnect the battery wires, noting their polarity.
6. Connect the new RBC51 battery, ensuring correct polarity.
7. Slide the new battery into the compartment and secure the access panel.
8. Reconnect the UPS to AC power and allow it to charge for 24 hours.

Properly dispose of the old battery according to local regulations.

7.2 Cleaning

Clean the exterior of the UPS with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure ventilation openings are free from dust and debris.

8. TROUBLESHOOTING

If the UPS is not operating correctly, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
UPS does not turn on.	Not connected to AC power; Battery discharged; Power button not held long enough.	Ensure UPS is plugged into a live AC outlet. Allow 24 hours for initial charge. Press and hold power button until beep.
UPS beeps continuously or Red LED is on.	Overload; Battery fault/needs replacement.	Disconnect non-essential equipment to reduce load. If alarm persists, replace battery (RBC51).
Short battery runtime.	Battery not fully charged; Battery nearing end of life; Excessive load.	Allow 24 hours for battery to charge. Reduce connected load. Replace battery if old.
Connected equipment loses power during outage.	Equipment connected to "SURGE ONLY" outlets; UPS battery discharged.	Ensure critical equipment is connected to "BATTERY BACKUP" outlets. Allow battery to charge.
Data line protection not working for Ethernet.	Incompatible Ethernet speed (only supports 10Mb).	The RJ45 ports are designed for 10BaseT Ethernet or telephone lines. Higher speed Ethernet (100BaseT, Gigabit) is not supported through these ports.

If problems persist after attempting these solutions, contact Tripp Lite technical support.

9. SPECIFICATIONS

Feature	Specification
Model Number	AVR700U
Capacity (VA/Watts)	700VA / 350W
Input Voltage	120V AC
Output Voltage	120V AC
Automatic Voltage Regulation (AVR)	Corrects 89V-145V to 120V
Outlets	8 x NEMA 5-15R (4 Battery Backup & Surge, 4 Surge Only)
Surge Suppression	316 Joules
Dataline Protection	RJ45 (10Mb Ethernet / Phone)

Feature	Specification
Battery Type	Sealed Lead Acid (User-replaceable RBC51)
Typical Backup Time (Half Load)	43 minutes (for energy-efficient desktop PC with small LCD)
Dimensions (H x W x D)	8.75 x 13.5 x 4.75 inches (22.23 x 34.29 x 12.07 cm)
Weight	12 pounds (5.44 kg)
Color	Black

10. WARRANTY AND SUPPORT

10.1 Product Warranty

This Tripp Lite AVR700U UPS system is covered by a 3-Year Manufacturer's Warranty. Additionally, it includes a \$100,000 Ultimate Lifetime Connected Equipment Insurance, providing protection for equipment properly connected to the UPS.

For detailed warranty terms and conditions, please refer to the warranty documentation included with your product or visit the official Tripp Lite website.

10.2 Technical Support

Tripp Lite offers expert technical support via phone, web, and email. If you encounter any issues or have questions regarding the installation, operation, or maintenance of your AVR700U UPS, please contact their support team for assistance.

For the most current contact information, please visit the Tripp Lite official website.