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> APC Back-UPS BX1400UI 1400VA Uninterruptible Power Supply User Manual

APC BX1400UI

APC Back-UPS BX1400UI User Manual

Model: BX1400UI | Brand: APC

1. INTRODUCTION

The APC Back-UPS BX1400UI is an Uninterruptible Power Supply (UPS) designed to protect your electronic equipment from power outages, surges, and spikes. Featuring Line Interactive Technology and Automatic Voltage Regulation (AVR), this unit provides reliable battery backup and surge protection for connected devices. It includes six IEC 320 C13 outlets, a USB interface for communication, and data line protection.

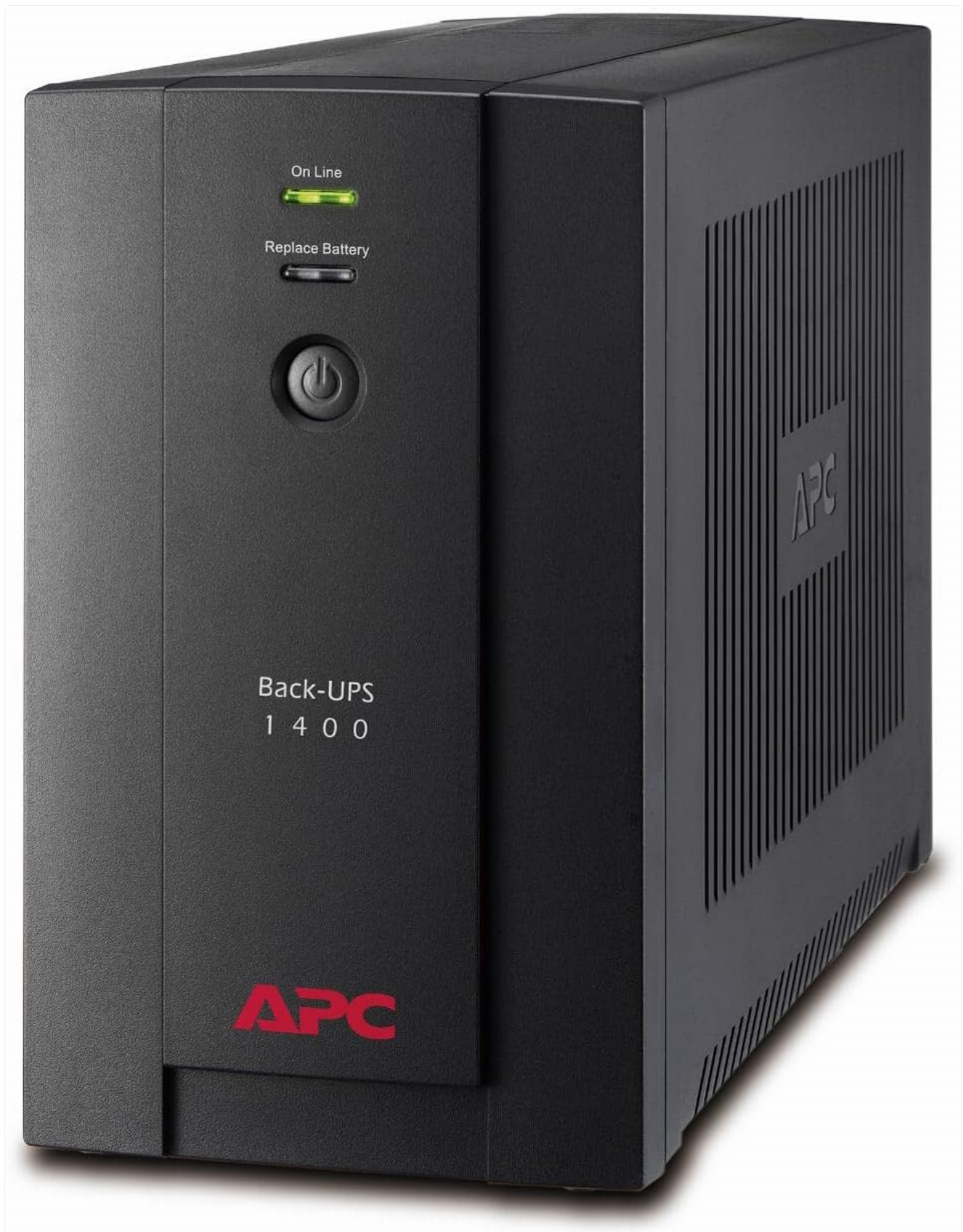


Figure 1: Front view of the APC Back-UPS BX1400UI.

2. IMPORTANT SAFETY INFORMATION

- **Electrical Hazard:** This unit contains high voltage components. Do not attempt to open the UPS casing, especially when connected to power. Refer all servicing to qualified personnel.
- **Direct Connection:** Always connect the UPS directly to a wall outlet. Do not use surge protectors, extension cords, or power strips with the UPS input.

- **Ventilation:** Ensure adequate ventilation around the UPS. Do not block ventilation openings.
- **Initial Odor:** A new unit may emit a distinct odor, often described as similar to burnt plastic. This is normal and typically dissipates after a few weeks of continuous operation in a well-ventilated area. It is not indicative of a malfunction.
- **Battery Replacement:** User-performed battery replacement during the warranty period will void the product warranty. Refer to the Maintenance section for details.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- APC Back-UPS BX1400UI Unit
- Two (2) IEC-C13 to IEC-C14 power cables (for connecting devices to the UPS)
- User Manual (this document)

Note: The input power cable (for connecting the UPS to the wall outlet) and the USB communication cable are typically **not included** and must be purchased separately if needed.

4. SETUP

4.1. Unpacking and Battery Connection

1. Carefully remove the UPS from its packaging.
2. Locate the yellow battery connector on the rear panel of the UPS. This connector is typically disconnected for safe transport.
3. Push the yellow battery connector firmly into its socket until it clicks into place. This activates the UPS battery circuits.

4.2. Connecting to Power

1. Connect the UPS to a grounded 230V AC wall outlet using an appropriate IEC-320 C14 input power cable (not included).
2. Ensure the connection is direct to the wall outlet. Do not use surge protectors or extension cords.
3. Allow the UPS to charge for at least 10 hours before connecting critical equipment to ensure full battery runtime.

4.3. Connecting Equipment

The BX1400UI features six IEC 320 C13 outlets for connecting your devices.

- **Battery Backup & Surge Protection Outlets:** All six IEC-C13 outlets provide both battery backup and surge protection. Connect your computer, monitor, and other critical electronics to these outlets.
- **Data Line Protection:** The rear panel includes RJ-11 ports labeled "DSL/Modem/Fax/Phone" for protecting your telephone or DSL line from surges. These ports are **not suitable for Ethernet network connections**
- **USB Interface:** Connect a USB Type B cable (not included) from the UPS to your computer for communication and to enable shutdown software functionality.





Figure 2: Rear panel connections of the APC Back-UPS BX1400UI.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

- **To Power On:** Press and hold the power button on the front panel until you hear a short beep. The UPS will perform a self-test, and the 'On Line' LED will illuminate green.
- **To Power Off:** Press and hold the power button until the UPS powers down.

5.2. LED Indicators

The front panel features LED indicators to show the UPS status:

- **On Line (Green LED):** Indicates the UPS is operating on utility power and providing power to connected equipment.
- **On Battery (Yellow LED):** Indicates the UPS is operating on battery power during a power outage or brownout. A humming noise is normal during battery operation.
- **Replace Battery (Red LED):** Indicates the battery needs to be replaced.
- **Overload (Red LED):** Indicates that the connected equipment exceeds the UPS's capacity. Disconnect non-essential equipment immediately.

5.3. Automatic Voltage Regulation (AVR)

The UPS automatically corrects minor voltage fluctuations (sags and surges) without switching to battery power, thus preserving battery life. If voltage fluctuations exceed the AVR's correction range, the UPS will switch to battery power.

6. KEY FEATURES

- **Line Interactive Technology:** Provides stable power by regulating voltage without constantly switching to battery.
- **Automatic Voltage Regulation (AVR):** Corrects minor voltage fluctuations without using battery power.
- **Battery Backup:** Supplies power to connected equipment during outages.
- **Surge Protection:** Protects connected devices from damaging power surges and spikes.
- **6 IEC 320 C13 Outlets:** Standard outlets for computer equipment.
- **USB Interface:** Enables communication with a computer for monitoring and controlled shutdown.
- **Data Line Protection:** Safeguards telephone/DSL lines from surges.

7. SOFTWARE USAGE

The APC Back-UPS BX1400UI supports USB Human Interface Device (HID) class specifications, allowing it to be recognized by most operating systems without special drivers.

7.1. APC PowerChute Personal Edition (Windows)

For advanced monitoring and management on Windows systems, download the APC PowerChute Personal Edition software from the official APC website. This software allows you to:

- Monitor UPS status, power consumption, and battery charge.
- Configure automatic shutdown of your computer during extended power outages.

- Adjust UPS settings, such as alarm behavior (e.g., disable the beeper during battery operation).
- Perform self-tests to ensure proper UPS functionality.

7.2. Linux Support (apcupsd / NUT)

For Linux environments, the UPS can be managed using `apcupsd` or Network UPS Tools (NUT). These tools provide similar monitoring and shutdown capabilities. Refer to the documentation for `apcupsd` or NUT for configuration details, typically involving specifying `UPSCABLE usb` and `UPSTYPE usb` for `apcupsd`, or using the `usbhid-ups` driver for NUT.

8. MAINTENANCE

8.1. Battery Replacement

The APC Back-UPS BX1400UI uses two 12V 7.2Ah sealed lead-acid batteries. The recommended replacement battery pack is APC RBC113.

- **During Warranty:** If the unit is still under its 2-year warranty, battery replacement must be performed by Schneider Electric IT (SEIT) customer service. User-performed battery replacement during the warranty period will automatically void the warranty.
- **After Warranty:** After the warranty period, batteries can be replaced by the user. However, due to the presence of high voltage components even when disconnected, it is highly recommended that this operation be performed by specialized personnel. If you choose to replace the batteries yourself, exercise extreme caution.
- **Procedure Overview (for experienced users only):** Disconnect the UPS from all power sources and connected equipment. Disconnect the yellow battery connector. Remove the rear panel screws, then the front panel (which is snap-fitted), and additional screws. Carefully access the battery compartment. Note the orientation and wiring of the existing batteries (taking photos is recommended) to ensure correct installation of the new batteries.

8.2. Circuit Breaker Reset

In case of an overload, the UPS may trip its circuit breaker. To reset, disconnect some equipment from the UPS, then press the circuit breaker button located on the rear panel (refer to Figure 2).

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
UPS does not turn on.	Battery connector disconnected; No input power.	Ensure yellow battery connector is fully inserted. Verify UPS is plugged into a live wall outlet.
Initial strong odor.	New unit manufacturing residue.	This is normal. Ensure adequate ventilation. Odor will dissipate over time (typically a few weeks).
UPS emits a humming noise.	Operating on battery power; Normal electrical noise.	Humming is normal when on battery. If persistent and loud on utility power, ensure proper ventilation and check for loose connections.
'Overload' LED is lit.	Too much equipment connected.	Disconnect non-essential equipment. Press the circuit breaker reset button on the rear panel.

Problem	Possible Cause	Solution
'Replace Battery' LED is lit.	Battery nearing end of life.	Contact APC support or a qualified technician for battery replacement. Refer to Section 8.1.
Short battery runtime.	Battery not fully charged; Battery nearing end of life; Excessive load.	Ensure initial 10-hour charge. Reduce connected load. Consider battery replacement if old.

For more detailed troubleshooting, refer to the complete user manual available on the APC website.

10. SPECIFICATIONS

Feature	Specification
Model	BX1400UI
Capacity (VA/Watts)	1400 VA / 700 W
Input Voltage	230V AC
Input Frequency	50 Hz
Output Voltage	230V AC (simulated sine wave on battery)
Output Outlets	6 x IEC 320 C13 (Battery Backup & Surge Protection)
Surge Protection Rating	273 Joules
Battery Type	Sealed Lead Acid
Battery Configuration	2 x 12V 7.2Ah
Typical Recharge Time	8 hours (to 90% capacity)
Runtime (at 700W load)	Approximately 1 minute
Runtime (at 100W load)	Approximately 60 minutes
Dimensions (H x W x D)	21.5 cm x 13 cm x 33.6 cm
Weight	4.7 kg
Interface Ports	USB Type B, RJ-11 (Data Line Protection)

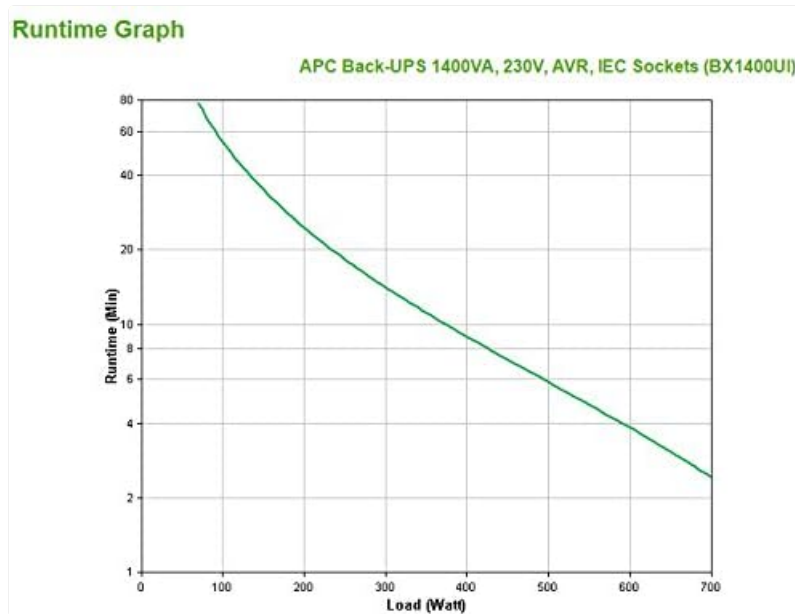


Figure 3: Typical runtime graph for APC Back-UPS 1400VA.

11. WARRANTY AND SUPPORT

11.1. Product Warranty

The APC Back-UPS BX1400UI comes with a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Important: Unauthorized opening of the unit or user-performed battery replacement during the warranty period will void the warranty.

11.2. Technical Support

For technical assistance, troubleshooting, or warranty service, please contact APC by Schneider Electric customer support. Visit the official APC website for contact information specific to your region, including phone numbers and online support resources.

Online resources often include FAQs, knowledge bases, and downloadable manuals that can provide further assistance.