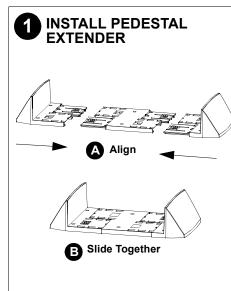
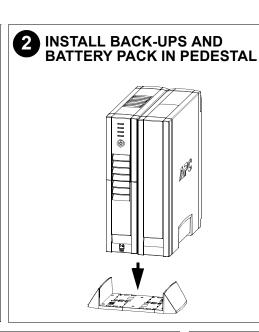
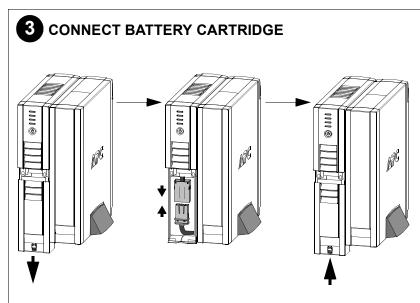


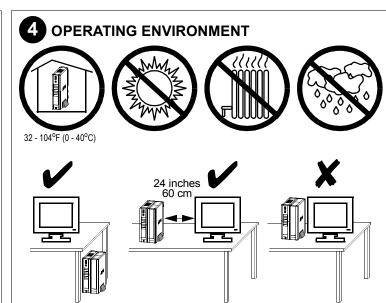
Back-UPS® XS 1500

User's Manual

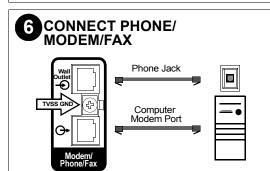


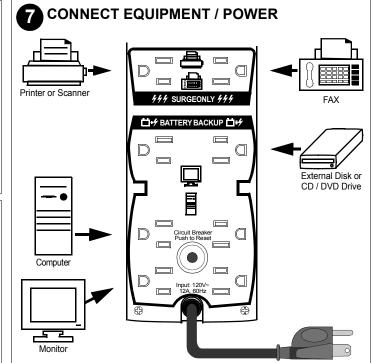












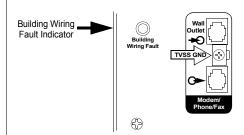
8 CHECK BUILDING WIRING FAULT INDICATOR

If the rear panel Building Wiring Fault (red) indicator is lit, a potential shock hazard exists due to one of the following conditions:

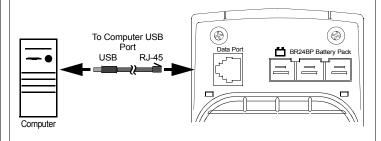
- Open or high resistance ground
- Hot or neutral polarity reversed
- · Overloaded neutral circuit

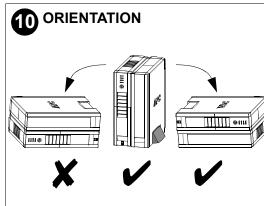
Improper building wiring should be corrected by a qualified electrician. Do not use the Back-UPS until the condition that caused the fault is corrected.

Note: Improper building wiring will not prevent the Back-UPS from operating, but it will limit its protection capability.











Note: Allow the Back-UPS to charge for a full eight (8) hours prior to use.

Press the front panel Power ON/OFF switch and observe that the following events occur after pressing and releasing the switch:

- The green On Line indicator flashes.
 The yellow On Battery indicator lights while a Self-Test is being performed.
- When Self-Test has successfully completed, only the green On Line indicator will be lit.
- If the battery cartridges are not connected (see Step 3 above), the green On Line indicator and red Replace Battery indicators will light. The Back-UPS will also emit a chirping sound



12 INSTALL SOFTWARE ON COMPUTER



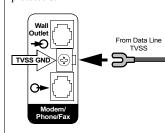
NOTE: Macintosh Users - for full USB performance, use OS 9.22 or higher.

If Autoplay is not enabled on the computer, proceed as follows:

- On the computer desktop of the display, doubleclick on My Computer.
- Double-click on the CD-ROM drive icon and follow the on-screen instructions.

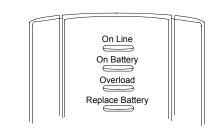
CONNECT TVSS

The Back-UPS features a transient voltage surge-suppression (TVSS) screw for connecting the ground lead on additional surge suppression devices such as network and data line surge protectors.



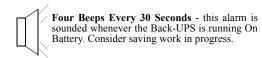
STATUS INDICATORS AND ALARMS

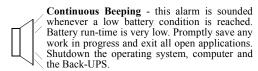
There are four status indicators (lights) on the front panel of the Back-UPS (On Line, On Battery, Overload, and Replace Battery).



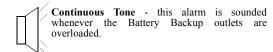
On Line (green) - is lit whenever utility power is powering the Battery Backup outlets.

On Battery (yellow) - is lit whenever the battery of the Back-UPS is powering equipment connected to the Battery Backup Outlets.





Overload (red) - is lit whenever power demand has exceeded the capacity of the Back-UPS.



Circuit Breaker - the circuit breaker button located on the rear panel of the Back-UPS will stick out if an overload condition forces the Back-UPS to disconnect itself from utility power. If the button sticks out, disconnect non-essential equipment. Reset the circuit breaker by pushing the button inward.

Replace Battery (red) - is lit whenever the battery is near the end of its useful life, or if the battery is not connected (see above). A battery that is near the end of its useful life has insufficient run-time and should be replaced.



Chirps for 1 Minute Every 5 Hours - this alarm is sounded whenever the battery has failed the automatic diagnostic test.

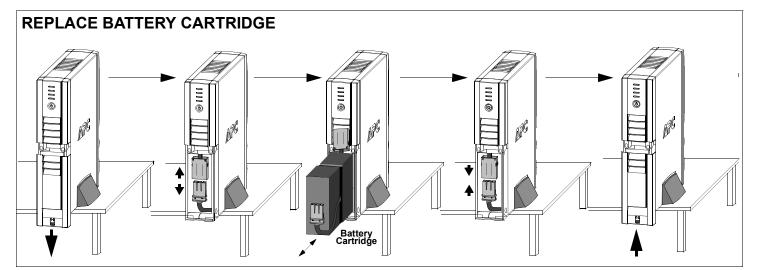
TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
Back-UPS will not switch on.	Back-UPS not connected to AC power source.	Ensure the Back-UPS is securely connected to an AC outlet.
	Back-UPS circuit breaker "tripped".	Disconnect non-essential equipment from the Back-UPS. Reset (push in) the rear panel circuit breaker. Switch on the Back-UPS and plug in devices one at a time. If the circuit breaker trips again, disconnect the device that caused the breaker to trip.
	Utility input voltage quality is out of range.	Consider adjusting the transfer voltage and sensitivity. See Transfer Voltage and Sensitivity Adjustment.
Back-UPS does not power essential equipment during an outage.	Equipment plugged into a Surge Only outlet.	Unplug device from 'Surge Only' outlet and move to a 'Battery Backup' outlet.
Back-UPS operates on battery although utility power exists.	Back-UPS circuit breaker "tripped".	Disconnect non-essential equipment from the Back-UPS. Reset (push in) the rear panel circuit breaker. Switch the Back-UPS on and plug equipment in one-at-a-time. If the circuit breaker trips again, disconnect the device that caused the breaker to trip.
	Utility input voltage quality is out of range.	Consider adjusting the transfer voltage and sensitivity. See Transfer Voltage and Sensitivity Adjustment.
Back-UPS does not provide expected backup time.	Back-UPS is heavily loaded.	Unplug non-essential equipment (printers, scanners, etc) from the Battery Backup outlets and plug into 'Surge Only' outlets.
	Back-UPS battery cartridge is discharged due to recent power outage and has not had time to recharge.	Charge the battery cartridge for 8 hours. Back-UPS runtime is reduced until the battery cartridge is fully charged.
	Battery has reached the end of its life.	Replace battery cartridge (see Order Replacement Battery Cartridge).
Red Replace Battery indicator is flashing. Green On Line indicator is on.	Internal battery cartridge is not connected.	Connect battery cartridge (see Connect Battery Cartridge).
Red Replace Battery indicator is on.	Battery has reached the end of its life.	Replace the battery cartridge (see <i>Order Replacement Battery Cartridge</i>).
Red Overload indicator is on or flashing.	Connected equipment is drawing more power than the Back-UPS can provide.	Move one or more equipment power plugs from Battery Backup outlets to Surge Only outlets.
Green On Line indicator is on and all other front panel indicators are flashing.	Internal UPS fault.	Contact APC Technical Support (see Contact Information).

ORDER REPLACEMENT BATTERY CARTRIDGE

The battery cartridge in the Back-UPS typically lasts 3-6 years, shorter if subjected to frequent outages or elevated temperatures. **Note**: Batteries in the battery pack are not user-replaceable. The battery cartridge and battery pack can be ordered online at www.apc.com. For the Back-UPS, order part number **RBC33**; for the battery pack order **BR24BP**. Please recycle spent battery cartridges.





SPECIFICATIONS

ltem	Specification
On-line Input Voltage Range (default setting)	88 - 139 Vac
Automatic Voltage Regulation (AVR)	<u>+</u> 12%
On-line Frequency Range	47 - 63 Hz (autosensing)
On-battery Waveshape	Stepped Sine Wave
Maximum Load	1500 VA - 865 W
Typical Recharge Time	24 Hours
Operating Temperature	32° to 104°F
	$0^{\rm o}$ to $40^{\rm o}{ m C}$
Storage Temperature	23° to 113°F
	-5° to 45°C
Operating / Storage Relative Humidity	0 to 95% non-condensing
Size (H x W x D)	14.6 x 6.8 x 13.1 inch
	37.1 x 17.2 x 33.3 cm
Weight	52.5 lbs (23.5 kg)
Shipping Weight	58.5 lbs (26.5 kg)
EMI Classification	FCC / DOC Class B Certified
On Battery Run-Time	See http://www.apc.com/product

TRANSFER VOLTAGE AND SENSITIVITY ADJUSTMENT

In situations where the Back-UPS or connected equipment appears too sensitive to input voltage, it may be necessary to adjust the transfer voltage. This is a simple task requiring use of the front panel pushbutton. To adjust the transfer voltage, proceed as follows:

- Plug the Back-UPS into the utility power source. The Back-UPS will be in a Standby Mode (no indicators lit).
- 2. Press the front panel pushbutton fully inward for 10 seconds. All indicators on the Back-UPS will flash to acknowledge going into Programming Mode.
- The Back-UPS will then indicate its current Lower Transfer Voltage, as shown in the following table.

Indicators Lit	Lower Transfer Voltage Sensitivity	Use When
1	78 Vac Low	Use only for extreme conditions of low input voltage. Not recommended for computer loads.
2	83 Vac Medium	Back-UPS frequently goes On Battery due to low input voltage.
3	88 Vac High (factory default)	Connected equipment is sensitive to low voltage (recommended).

- 4. To select 78 volts as the Lower Transfer Voltage, press the pushbutton until 1 indicator is flashing
- To select 83 volts as the Lower Transfer Voltage, press the pushbutton until 2 indicators are flashing.
- To select 88 volts as the Lower Transfer Voltage, press the pushbutton until 3 indicators are flashing.
- 7. Once in Programming Mode, if the pushbutton is not pressed within 5 seconds, the Back-UPS will exit Programming Mode; all indicators will extinguish.

SERVICE

If the Back-UPS arrived damaged, notify the carrier.

If the Back-UPS requires service, do not return it to the dealer. The following steps should be taken:

- 1. Consult the Troubleshooting section to eliminate common problems.
- 2. If the problem persists, go to http://www.apc.com/support/.
- 3. If the problem still persists, contact APC Technical Support.
 - Have the Back-UPS model number, serial number and date of purchase available. Be prepared to troubleshoot the problem with an APC Technical Support representative. If this is not successful, APC will issue a Return Merchandise Authorization (RMA) number and a shipping address.

LIMITED WARRANTY

The standard warranty is two (2) years from the date of purchase. APC's standard procedure is to replace the original unit with a factory reconditioned unit. Customers who must have the original unit back due to the assignment of asset tags and set depreciation schedules must declare such a need at first contact with an APC Technical Support representative. APC will ship the replacement unit once the defective unit has been received by the repair department, or cross-ship upon the receipt of a valid credit card number. The customer pays for shipping the unit to APC. APC pays ground freight transportation costs to ship the replacement unit to the customer.

CONTACT INFORMATION

Technical Support	http://www.apc.com/support
Internet	http://www.apc.com
USA / Canada	1.800.800.4272
Mexico	292.0253 / 292.0255
Brazil	0800.12.72.1
Worldwide	+1.401.789.5735

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