

Be sure the air vents on the UPS are not blocked. Allow adequate space for proper ventilation.
 The battery typically lasts for three to five years. Environmental factors impact battery life. Elevated ambient temperatures, poor quality AC power, and frequent short duration discharges will shorten battery life.

Do not operate this UPS in direct sunlight, in contact with fluids, or where there is excessive dust or humidity.

D Placement / Power

Installation

Inventory

Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords.
 Plug the Back-UPS into a wall outlet, as shown.

Inspect the package contents upon receipt. Notify the carrier and dealer if there is any damage.

Read the following reminders before installing the UPS.

500 o cerca il tuo prodotto tra le migliori offerte di Gruppi di Continuità

EN 990-9237A 10/2014 350/500/650 **User Manual**

This UPS is intended for indoor use only.

Connect the UPS power cable directly to a wall outlet. Do not use surge protectors or extension cords. When grounding cannot be verified, disconnect the equipment from the AC power outlet before installi or connecting to other equipment. Reconnect the power cord after all connections are made. Servicing of batteries should be performed by Schneider Electric IT (SEIT) Customer Support only.

• When replacing battery the UPS must be OFF, and its AC inlet unplugged.

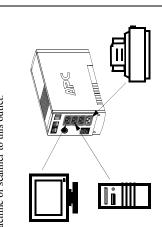
• Do not dispose of batteries in a fire. The batteries may explode.

Connect Equipment to the Back-UPS

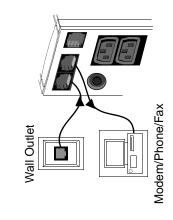
rear panel of the Back-UPS consists of the wing elements:

Battery Back Up Outlets (qty. of 3). These outlets provide battery back-up, surge protection, and Electro-magnetic Interference (EMI) filtering. In case of power outlage, battery power is automatically provided to these outlets. Power (utility or battery) is provided to these outlets when the Back-UpS is switched Off. Connect a computer, monitor, and external disk or CD-ROM drive to these outlets.

Surge Only Outlet. This outlet is always On (when utility power is available) and is not controlled by the On/Off switch. This outlet does not provide power during a power outage. Connect a printer, fax machine or scanner to this outlet.



4 Connect the Phone Line to Surge Protection



Switch on the Back-UPS

To avoid harmful injury due to energy hazard, remove wrist watches and jewelry such as rings when replacing the batteries. Use tools with insulated handles.

Replace batteries with the same number and type of batteries as originally installed in the equipment

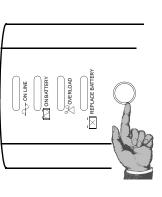
Connect USB Cable and Install Software (optional)

The Back-UPS charges the internal battery time it is connected to a wall outlet.

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

Press the push-button on the front panel of the Back-UPS.

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- The yellow **On Battery** indicator lights while the **Self-Test** is being performed. • The green On-Line indicator flashes

NOTE: Macintosh Users - for full USB performance, use Mac OS 10.1.5 or higher. If Autoplay is not enabled on the comp proceed as follows:

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

Replacing the battery is a safe procedure. However, during the process. This is normal. To replace the internal battery, proceed as follows:

Note:

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

Continuous Tone - this alarm is sounded whenever the Battery Backup outlets are overloaded.

Replace the Internal Battery

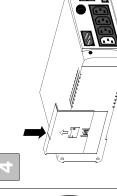
Status Indicators and Alarms

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



Pull the battery out, exposing the battery terminals and wires. Disconnect the wires frothe terminals.

on its side. Slide the battery cover upward and off of the UPS.



Align the battery compartment cover with grooves in the UPS. Slide the cover down until it locks.

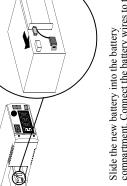
Order Replacement Battery

Replace Battery (red) - is lit when-ever the battery is near the end of its use-ful 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.

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

On Line (green) - is lit whene power is powering the Battery

Four Beeps Every 30 Seconds - this alarm is sounded whenever the Back-UPS is running On Battery. Consider saving work in progress.



Slide the new battery into the battery compartment. Connect the battery wires to the terminals as follows:

Black wire to Negative (-) terminal
Red wire to Positive (+) terminal

The typical battery lifetime is 3-5 years (depending on the number of discharge cycles and operating temperature). A replacement battery can be ordered over the phone from Schneider Electric, or the battery can be ordered on-line from the APC by Schneider Electric web site (http://www.apc.com, a valid credit card is required).

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

Continuous Beeping - this alarm is sounded whenever a low battery condition is reached. Battery run-time is very low. Promptly save any work in progress and exit all open applications. Shutdown the operating system, computer and the Back-

Transfer Voltage and Sensitivity Adjustment (optional)

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:

- 1. 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.
- 3. The Back-UPS will then indicate its current Sensitivity Setting, as shown in the following table.

Indicators Flashing	Sensitivity Setting	Input Voltage Range (for utility operation)	Use When
l (yellow)	Low	160 - 278 Vac	Input voltage is extremely low or high. Not recommended for computer loads.
(yellow, and red)	Medium (factory default)	180 - 266 Vac	Back-UPS frequently goes On Battery.
(yellow, red, and red)	High	196 - 256 Vac	Connected equipment is sensitive to voltage fluctuations (recommended).

- 4. To select the Low Sensitivity setting, press the pushbutton until the yellow indicator is flashing.
- 5. To select the Medium Sensitivity setting, press the pushbutton until the yellow and red indicators (second and third from the top) are flashing.
- 6. To select the High Sensitivity setting, press the pushbutton until yellow and both red indicators (bottom three) are flashing.
- 7. To exit without changing the Sensitivity Setting, press the pushbutton until the green indicator is flashing.
- 8. Once in Programming Mode, if the pushbutton is not pressed within 5 seconds, the Back-UPS will exit Programming Mode; all indicators will extinguish.

Troubleshooting

Use the tables below to solve minor Back-UPS installation and operation problems. Consult Schneider Electric IT (SEIT) On-line Technical Support or call SEIT Technical Support for assistance with problems that cannot be resolved using this document:

Possible Cause	Procedure	
Back-UPS will not switch on		
Back-UPS not connected to an utility power source.	Check that the Back-UPS power plug is securely connected to the wall outlet.	
Back-UPS circuit breaker "tripped".	Disconnect non-essential equipment from the Back-UPS. Reset the circuit breaker (located on the rear panel of the Back-UPS) by pushing the circuit breaker button fully inward until it catches. If the circuit breaker resets, switch the Back-UPS on and reconnect the equipment one-at-a-time. If the circuit breaker trips again, it is likely that one of the connected devices is causing the overload.	
Very low or no utility voltage.	Check the wall outlet that supplies power to the Back-UPS using a table lamp. If the lamp bulb is very dim, have the utility voltage checked by a qualified electrician.	
Portable generator being used to provide input voltage.	Set the Transfer Voltage and Sensitivity setting to Low (see <i>Transfer Voltage and Sensitivity Adjustment</i>). By setting the Back-UPS to Low sensitivity, it can accept a wider range of input voltage.	

Back-UPS does not power computer/monitor/external drive during an outage

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Internal battery is not connected.	Check the battery connections	
Computer, monitor or external disk/CD-ROM drive is plugged into a Surge Only outlet.	Move computer, monitor, or external drive power cord plug to the Battery Backup outlets.	

Back-UPS operates on battery although normal utility voltage exists

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Back-UPS circuit breaker "tripped".	Disconnect non-essential equipment from the Back-UPS. Reset the circuit breaker (located on the rear panel of the Back-UPS) by pushing the circuit breaker button fully inward until it catches.	
The wall outlet that the Back-UPS is connected to does not supply utility power to the unit.	Connect the Back-UPS to another wall outlet electrician check the building wiring.	or have a qualified

Back-UPS does not provide expected backup time

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Back-UPS is excessively loaded.	Unplug non-essential Battery Backup connected equipment, such as printers and plug them into Surge Only outlets. Note: Devices that have motors or dimmer switches (laser printers, heaters, fans, lamps, and vacuum cleaners, for example) should not be connected to the Battery Backup outlets.	
Back-UPS battery is weak due to recent outage and has not had time to recharge.	Charge the battery. The battery charges whenever the Back-UPS is connected to a wall outlet. Typically, eight hours of charging time are needed to fully charge the battery from total discharge. Back-UPS run-time is reduced until the battery is fully charged.	
Battery requires replacement.	Replace battery (see Order Replacement Battery). Batteries typically last 3-6 years, shorter if subjected to frequent power outages or elevated temperatures.	

A red indicator is lit

Battery is not connected properly.	Check the battery connections.	
The Overload indicator is lit if equipment connected to the Battery Backup outlets is drawing more power than the Back-UPS can provide.	Move one or more equipment power plugs to the Surge Only outlets.	
Battery requires replacement.	The battery should be replaced within two weeks (see "Order Replacement Battery"). Failure to replace the battery will result in reduced run-time during a power outage.	

Red indicators are flashing

Back-UPS failure.	Call APC for service.

Replace Battery indicator lit and an alarm sounds when the Back-UPS is turned on

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Internal battery not connected.	Check the battery connections.

Specifications

Input Voltage (on line)	180 - 266 Vac (default setting)	
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Frequency Limits (on line)	47 - 63 Hz (auto-sensing)	
On Battery Waveshape	Stepped Sine Wave	
Maximum Load	350 VA - 210 W 500 VA - 300 W 650 VA - 400 W	
Typical Recharge Time	8 Hours	
Operating Temperature	0° to 40°C (32° to 104°F)	
Storage Temperature	-15° to 45°C (5° to 113°F)	
Operating and Storage Relative Humidity	5 to 95% non-condensing	
Size (H x W x D)	16.5 x 9.2 x 28.5 cm (6.5 x 3.6 x 11.2 inches)	
Weight	350 VA - 5.7 kg (12.5 lb) 500 VA - 5.9 kg (12.9 lb) 650 VA - 6.2 kg (13.6 lb.)	
Shipping Weight	350 VA - 6.8 kg (14.9 lb) 500 VA - 7.0 kg (15.3 lb) 650 VA - 7.3 kg (16.1 lb.)	
EMI Classification	EN 55022, IEC 801-2 and 801-4 (level IV), and IEC 801-3 (level III)	
On Battery Run-Time	350 VA - 13.2 minutes (typical) - computer and 17" (43.2 cm) monitor.	
	500 VA - 10.8 minutes (typical) - computer and 21" (53.3 cm) monitor. 650 VA - 17 minutes (typical) - computer and 21" (53.3 cm) monitor.	

Back-UPS Storage

Before storing, charge the Back-UPS for at least eight hours. Store the Back-UPS covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following table:

Storage Temperature	Recharge Frequency	Charging Duration
-5° to 30°C (23° to 86°F)	Every 6 months	8 hours
30° to 45°C (86° to 113°F)	Every 3 months	8 hours

Contact APC Technical Support to troubleshoot the unit before returning it to APC

Service

Note: If the 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. Determine if the circuit breaker is tripped. If the circuit breaker is tripped, reset the breaker and determine if the problem still exists.
- If the problem persists, consult the APC Worldwide Web site (www.apcc.com) or call customer service.
 - Record the model number of the UPS, the serial number, and the date purchased. Be prepared to
 troubleshoot the problem over the telephone with a technician. If this is not successful, the
 technician will issue a Return Merchandise Authorization Number (RMA#) and a shipping
 address.
 - If the UPS is under warranty, repairs are free. If not, there is a repair charge.
- 4. Pack the UPS in its original packaging. If the original packing is not available, ask customer service about obtaining a new set. Pack the UPS properly to avoid damage in transit.

Note: Never use StyrofoamTM beads for packaging. Damage sustained in transit is not covered under warranty (insuring the package for full value is recommended).

- Write the RMA# on the outside of the package.
- 6. Return the UPS by insured, prepaid carrier to the address provided by customer service.

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.

APC by Schneider Electric IT Customer Support

For country specific customer support, go to the APC by Schneider Electric Web site, www.apc.com.

EMI Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Locate the label on the bottom of this device that contains, among other information, the FCC registration number [US: 1XH-USA-25572-XP-N]] and ringer equivalence number (REN) for this device. If requested, this information must be provided to the telephone company.

If you experience trouble with this equipment, you disconnect it from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. The ringer equivalence number (REN) is used to determine how many devices can be connected to your telephone line. In most areas, the sum of the RENs of all devices on any one line should not exceed five (5.0). If too many devices are attached, they may not ring properly.