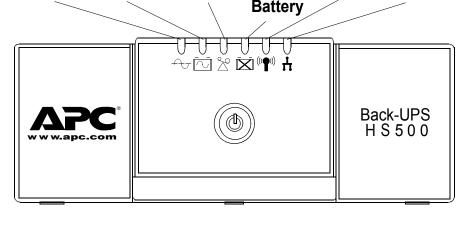


STATUS INDICATORS AND ALARMS

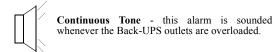
There are six status indicators (lights) on the front panel of the Back-UPS (On Line, On Battery, Overload, Replace Battery, TX/RX, and ACT/LNK).

On Line On Battery Overload Replace TX/RX ACT/LNK



On Line (green) - is illuminated whenever AC utility power is supplying power the outlets.

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



On Battery (yellow) - is illuminated whenever the Back-UPS battery is supplying power to the equipment connected to the outlets

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

Continuous Beeping - this alarm is sounded whenever a low battery condition is reached. Battery run-time is very low. If supplying power to a computer directly from the Back-UPS, promptly save any work-in-progress and exit all open applications. Shut down the operating system, computer and the Back-UPS.

Replace Battery (red) - is illuminated 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.

TX/RX (green) - is illuminated whenever the Back-UPS is sending or receiving data over the network.

ACT/LNK (green) - is illuminated whenever the Back-UPS is connected to equipment and is ready and waiting to send or receive data.

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

Indicators Flashing (yellow) 2 (yellow, and red) 3 (yellow, red, and red flashing flashing

INSTALL AND SETUP SOFTWARE



If Autoplay is enabled on your computer, the software on the CD-ROM will automatically start the installation program.

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

- 1. On the computer desktop of the display, double-click on My Computer, or start Windows Explorer to locate the computer's CD-ROM drive icon.
- 2. Double-click on the CD-ROM drive icon and then double-click on the setup.exe icon. The software will start and display the InstallShield Wizard Screen (Figure 1). The software will begin the installation process. To stop the installation, click Cancel.

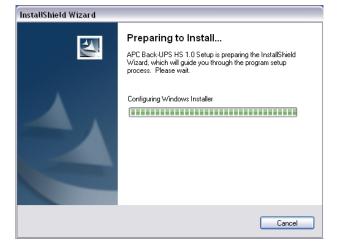


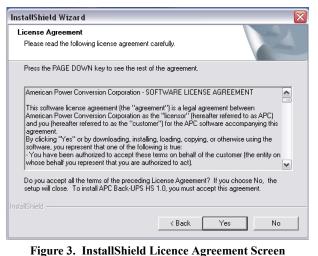
Figure 1. InstallShield Wizard Screen

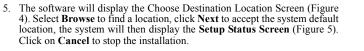
3. After about 4 seconds, the software will display the Welcome Screen (Figure 2). To continue, click Next. To cancel the installation, click Cancel

nstallShield Wizard	
N	Welcome to the InstallShield Wizard for APC Back-UPS HS 1.0
	The InstallShield® Wizard will install APC Back-UPS HS 1.0 on your computer. To continue, click Next.
	< Back Next > Cancel

Figure 2. InstallShield Welcome Screen

4. The software will then display the Licence Agreement (Figure 3). Please read the Agreement and accept the terms by clicking Yes. To decline the Agreement, click No - the software will not install.





InstallShield Wizard	X
Choose Destination Location Select folder where Setup will install files.	
Setup will install APC Back-UPS HS 1.0 in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
Destination Folder	
C:\Program Files\APC\APC Back-UPS HS\ Browse	
InstallShield	
< Back Next > Cancel	

Figure 4. Choose Destination Location Screen

nstallShield Wizard	
Setup Status	
APC Back-UPS HS 1.0 Setup is performing the requested operations.	
100%	
nstallShield	
	Cancel

Figure 5. Setup Status Screen

TRANSFER VOLTAGE/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 Power switch, or it can also be accomplished using the Configuration Page Screen (Figure 16) in the supplied software (see Install and Setup Software). To adjust the transfer voltage, proceed as follows:

1. Plug the Back-UPS into a the power source. The unit will be in a stand by mode (no indicators illuminated). 2. Press the front panel power switch 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 Sensitivity Setting, as shown in the following table.

	Sensitivity Setting	Input Voltage Range (for utility operation)	Use When
	Low	88 - 142 Vac	Input voltage is extremely low or high. Not recommended for computer loads.
	Medium (factory default)	92 - 139 Vac	Back-UPS frequently goes On Battery (recommended).
d)	High	96 - 136 Vac	Connected equipment is sensitive to voltage fluctuations.

4. To select the Low Sensitivity setting, press the Power switch until the yellow indicator is flashing. 5. To select the Medium Sensitivity setting, press the Power switch until the yellow and red indicators are

6. To select the High Sensitivity setting, press the Power switch until yellow and both red indicators are

7. To exit without changing the Sensitivity Setting, press the Power switch until the green indicator is flashing. 8. Once in Programming Mode, if the Power switch is not pressed within 5 seconds, the Back-UPS will exit Programming Mode; all indicators will extinguish.

> 6. The software then displays the InstallShield Wizard Complete Screen (Figure 6). Select Finish to quit the installation program..

InstallShield Wizard	
	InstallShield Wizard Complete Setup has finished installing APC Back-UPS HS 1.0 on your computer.
	< Back Finish Cancel

Figure 6. InstallShield Wizard Complete Screen

7. To launch the program, go to the Start menu, select APC, then select APC Back-UPS HS (Figure 7). Continued on the next page

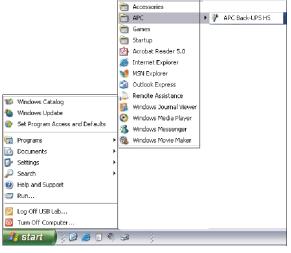


Figure 7. APC Software Startup Menu Selections

8. Following installation, the Back-UPS HS software is available in the Start menu. Upon launching the program, it searches for all Back-UPS HS devices on the network, and will identify them as shown in Figure 8 by IP Address and MAC Address. The IP Address is automatically assigned to the Back-UPS by the DHCP services from your hub or router. IP Addresses assigned by the DHCP service may automatically change over time. Thus, APC recommends you do not bookmark the IP Address, as you may not be able to access it through your browser. The MAC Address is assigned to the Back-UPS HS 500 at the factory.

ack-UPS	HS			w.apc.co
Name	IP Address	MAC Address		S Settings
	192.168.1.101	00:C0:B7:25:0D:4E		onfiguration
				-
			As	sign Name
				Help
				About

Figure 8. Back-UPS HS IP Address and MAC Address Screen

9. If there are no DHCP services on the network, or if you want to assign an IP Address you can easily remember, you can manually assign an IP Address to the Back-UPS by clicking on the IP Configuration button. The address you assign must follow the format shown in Figure 9 and cannot duplicate an address already assigned. Figure 10 shows the IP Configuration Screen with the IP Address fields set to zero (0).

To assign an IP Address to your computer, please read and follow the directions that came with your computer.

• •		. O X
Back-UPS I	O IP Configuration	
Name	The UPS can obtain IP settings automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP address.	UPS Settings
	Obtain an IP address automatically.	IP Configuration
	Use the following IP address	Assign Name
	IP Address: 192. 25 . 20 . 200	
	MAC Address: 00:C0:B7:25:0D:4E	
	OK Cancel	Help
		About
V		

Figure 9. Assign IP Address Screen

• •		00×
Back-UPS I	Other and the appropriate IP address IP Address: Obtain an IP address automatically if your network administrator for the appropriate IP address. Obtain an IP address automatically. Use the following IP address IP Address: IP Address: IP Address: O.CO.87.25:00:4E OK Cancel	UPS Settings UPC Configuration Assign Name Help About

Figure 10. Blank Assign IP Address Screen

10. You can assign a name to the Back-UPS by clicking on the Assign Name button (Figure 8) and entering the name in the Assign Name Screen dialog. It will appear in the column to the left of the IP Address of the device (Figure 11). Names should not be duplicated.

Assign Nar	ne	
bis dialog allows u	ou to give the UPS a more familiar	
		ione more essilu
	o help you to identify individual devi	
		ices more easily.

Figure 11. Assign Name Screen

11. To reset the Back-UPS HS to factory default values, use the UPS Settings button. If the Back-UPS HS does not reset using the software, remove the Battery Cover and insert a small object (about 2 inches in length) into the hole located next to the telephone jack (Figure 12) for approximately 5 seconds. Note: The telephone jack is provided for factory testing only - do not connect anything to this jack).

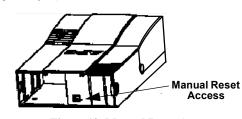


Figure 12. Manual Reset Access

12. Before performing any UPS maintenance task, check the Status of the UPS by clicking on the Status link. The screen shown in Figure 13 will be displayed.



Figure 13. Back-UPS HS 500 Status Screen

13. To change the configuration of the Back-UPS or perform UPS maintenance, you must log on to the web page (Figure 11) by clicking on the UPS Settings button.

When this page is displayed, enter a default **Username** of **apc**, and a default **Password** of **apc**. To change the **Username** or **Password**, you must log on and then click **Maintenance** (Figure 14).

Note: You can also access the Logon Page Screen by entering the IP Address into the Address line of your browser.

] APC Back-Ul ile Edit View		ticrosoft Internet Exp ools Help	lorer			
🖁 Back 🔹 🤅	. 🖹	👔 🏠 🔎 Search 🦄	📩 Favorites 🛛 😵 Mec	ia 🥝 🔗 🍑 🗖	3 43	
ddress 🔕 http:/	/192.168.1.102/				~	🔁 Go Lini
Аг	°C			AI	PC Back-UPS	HS 500
www.ap	Status	Configuration	<u>Maintenance</u>	About	Logon	2
Flease	erner your	username and pas	sworu.			
User	name:		Logon			
Pass	word:					
Valid en	tries are 20 or fer	ver characters in length. e batterv backup settings.				
Luguria	equice to charg	buildy buckup schings.				
Logon Page					🌍 Inte	met
🖁 start	i 🕑 🥥 🗊	•	PC Back-UPS HS	APC Back-UPS HS 50		3 9:40 A
						Tuesda

Figure 14. Log On Screen

14. Using the Maintenance Screen (Figure 15), you can perform a Battery Self-Test, Update the Battery Replacement Date, Change the User Name or Password (as previously discussed) then click Update Now, or you can Restore Factory Defaults. Note: You must be logged on to perform any of these tasks.

C Back-UPS HS 500 - Microsoft Internet Explo	rer		-	B
Edit View Favorites Tools Help				4
APC		APC E	ack-UPS HS 500	,
www.apc.com Status Configuration	Maintenance	About	Logoff ?	
Battery Self Test				
TestNow				
Test results are displayed	on the status page.			
Update Battery Replacem	ent Date			
Update Now				
Perform this operation only	upon battery replacement.			
Change Username and Pe	assword			
Enter New Usemame	Enter New Password			
		Update Nov	v	
Enter New Usemame		Update Nov	v	
		Update Nov	v	
Valid entries are 20 or few		Update Nov	v	
		Update Nov	v	
Valid entries are 20 or few Restore Factory Defaults Restore Now	ver characters in length.		v	
Valid entries are 20 or few Restore Factory Defaults Restore Now			v	

Figure 15. Maintenance Page Screen

15. Using the Configuration Page Screen (Figure 14), you can adjust the Sensitivity of the Back-UPS. By adjusting the Sensitivity, the Back-UPS will allow the unit to switch to battery power depending on the quality of the AC utility power being supplied to the unit. Use of the Sensitivity settings are for the following conditions:

Low - Use only for extreme conditions of low input voltage. Not recommended for computer loads.

Medium - Back-UPS frequently goes On Battery due to low input voltage (recommended).

High - Connected equipment is sensitive to low voltage.

The **Configuration Page Screen** also allows you to **enable** or **disable** the **Audible Alarm**. If enabled, this alarm operates as described in the *Status Indicators and Alarms* section of this manual. If disabled, the Back-UPS will quiet the alarm.

Additionally, the **Configuration Page Screen** allows you to adjust the voltage **Transfer Points**. The Back-UPS will transfer to **On Battery** operation at input voltages **Above** or **Below** the points selected in the drop-down **Volts** menu.

Finally, the **Configuration Page Screen** provides **Output Control** for the four outlets of the Back-UPS. Control consists of switching power **On** or **Off** at **Output 1**, **Output 2**, or the two outlets of **Output 3**. It also allows you to **Reboot** loads by automatically switching power **Off** and then **On** at the selected outlet. If an outlet is switched **Off**, it cannot be rebooted.

To use the **Configuration Page Screen**, you must be logged on to the Back-UPS. Select the desired function and click on the **Apply** button. To reset the unit to the factory defaults, click the **Reset** button.

e Edit N	ñew Favorite	is Tools Help					- R
Δ	PC				APG	C Back-UPS HS 500)
	<u>Status</u>	<u>Configurat</u>	ion <u>Main</u> t	enance	About	Logoff ?	
							^
		ensitivity					
	0) High	Medium	O Low			
		udible Alarm					
	0) Enable	O Disable				
	т	above	ckup will intervene ckup will intervene		108 🗸	-	=
	0	utlet Control					
	-) On	O Off	Rebo			
			O Off	O Rebo			
	() On	O Off	Rebo	ot Output	3	

Figure 16. Configuration Page Screen

16. The About Page Screen provides general information about your Back-UPS including Network Parameters (IP and MAC Addresses), as well as Technical Parameters (Model, Serial Number, Firmware Revision, Web Firmware Revision, UPS Date of Manufacture, and Battery Replacement Date).

status	Configuration	Maintenance	<u>About</u>	Logon	1
Network Par	ameters				
IP Address:		192.168.1.102			
MAC Address		00.C0.B7.25.0D.4E			
Technical P	arameters				
Model:		APC Back-UPS HS	500		
Serial number		AB0343147115			
Firmware revis	sion:	10			
Web firmware	revision:	Ith			
UPS date of m	anufacture (mm-dd-yyyy):	10-21-2003			
Battery replac	ement date (mm-dd-yyyy):	12-05-2003			
		About Page			

Figure 17 About Page Screen

Specifications

Input Voltage (On Line)	95 - 142 Vac
Input Frequency	47 - 63 HZ (autosensing)
Output Wave Form (On Battery)	Stepped Sine Wave
Maximum Load	500 VA 300 Watts
Operating Temperature	32 - 104° F (0 to 40° C)
Storage Temperature	5 - 113° F (-15 to 45° C)
Operating Humidity	10 - 90% non-condensing
Storage Humidity	10 - 95% non-condensing
Physical: (D x W x H)	14.65 x 8.85 x 4.13 in (37.2 x 22.5 x 10.5 cm)
Weight	16.3 lb (7.4 kg)
Typical Recharge Time	6 - 8 hours
EMI Classification	FCC Part 15
Approvals	cTUVus, FCC Part 15 FCC Part 68, Industry Canada

Troubleshooting

Use the tables below to solve minor Back-UPS installation and operation problems. Consult APC On-line Technical Support or call APC 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 AC 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 bottom 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, the last connected device is causing the overload.		
Very low or no AC utility power.	Check the wall outlet that supplies power to the Back-UPS using a table lamp. If the lamp bulb is very dim, have the AC utility power checked by a qualified electrician.	J	

Back-UPS does not supply power to network devices during an outage

Internal battery is not connected.	Check the battery connections. (See "Connect/Install Battery, Install Battery Cover" under "Installation" on the front page of this document.
------------------------------------	---

Back-UPS operates on battery although normal utility voltage exists

Back-UPS circuit breaker "tripped".	Disconnect non-essential equipment from the Back-UPS. Reset the circuit breaker (located on the bottom 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 AC utility power to the unit.	Connect the Back-UPS to another wall outle electrician check the building wiring.	t or have a qualified

Back-UPS does not provide expected backup time

Back-UPS is excessively loaded.	Unplug non-essential connected equipment, such as laser printers.	
	Note: Devices that have motors or dimmer switches (laser printers, heaters, fans, lamps, and vacuum cleaners, for example) should not be connected to the Back-UPS 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.	

Possible Cause Procedure A red indicator is illuminated Battery is not connected properly. Check the battery connections. Consult "Connect/Install Battery, Install Battery Cover", which shows how to access the battery and connect the wires. Disconnect one or more equipment power plugs until the indicator is The Overload indicator is illuminated if equipment connected no longer illuminated. to the Back-UPS outlets is drawing more power than the Back-UPS can provide. The battery should be replaced within two weeks (see "Order Battery requires replacement. Replacement Battery"). Failure to replace the battery will result in reduced run-time during a power outage. Replace Battery indicator illuminated / alarm sounds when the unit is turned on **Red indicators are flashing** Back-UPS failure. Call APC for service. ACT/Link Indicator is not illuminated Unable to link to the Ethernet port. Connect another network device to the LAN connector. Verify all network connections. TX/RX Indicators are flashing. Back-UPS failure. Contact APC technical support Unable to browse to Back-UPS HS

Check the battery connections. Consult "Connect the Battery" under "Installation" on the front page of this document. It shows how to access the battery and connect the wires.

Cannot access the Web interface of the Back-UPS.	Using the Back-UPS HS Software , check the assigned Internet Protocol (IP) address of the Back-UPS. If the assigned address is 0.0.0, shut down the Back-UPS HS Software and then restart the program. The equipment providing DHCP will reassign an IP Address to the Back-UPS. Verify you can "ping" the Back-UPS, as follows:
	Open an MS-DOS window and enter the Ping Command as,
	ping XXX.XXX.XXX.XXX (IP address of the device to be "pinged"
	If a message similar to the following appears, a communication link between your computer and the device has been established:
	Pinging XXX.XXX.X.X with 32 bytes of data
	Reply from XXX.XXX.X.X: bytes=32=2ms TTL=64
	If you get the following message, Pinging XXX.XXX.X with 32 bytes of data Request timed out.
	there may be something wrong in your network configuration. Check the following items in sequence:
	1. Ensure the ethernet cable is properly connected.
	2. Ensure TCP/IP is properly configured on your computer.
	3. Check that the ACT/LNK and TX/RX LEDs are illuminated.
	Verify that you are using Internet Explorer 5.0 (or higher), or Netscape Navigator 7.0 (or higher).

Order Replacement Battery

Replace with an APC qualified battery. Replacement batteries can be ordered from APC Global Services. Have your Back-UPS HS model number available when ordering. Your model number can be found on the bottom of the unit.

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. 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.

Warranty Registration

To register this product for purposes of the warranty, please go to warranty.apc.com.

APC Contact Information

Technica Internet USA and

al Support	www.apc.com/support
	www.apc.com
d Canada	800-800-4272

Copyright © 2007 American Power Conversion. All rights reserved. APC and Back-UPS are registered trademarks of American Power Conversion. All other trademarks are the property of their respective owners.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com