

SAFETY WARNINGS

(SAVE THESE INSTRUCTIONS)

This manual contains important safety instructions. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate your UPS.

This equipment can be operated by any individuals with no previous training.

The socket-outlet shall be installed near the equipment and easily accessible.

During the installation of this equipment it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.

Attention, hazardous through electric shock. Also with disconnection of this unit from the mains, hazardous voltage still may be accessible through supply from battery. The battery supply should be therefore disconnected in the plus and minus pole at the quick connectors of the battery when maintenance or service work inside the UPS is necessary.

Do not dispose of batteries in a fire, the battery may explode.

Do not open or mutilate the battery or batteries, released electrolyte is harmful to the skin and eyes.

Do not replace the batteries of UP425UIT.

INSTALLING YOUR UPS SYSTEM

UNPACKING

Inspect the UPS upon receipt. The box should contain the following:
UPS Unit; PowerPanel® Personal Edition Software Disk x 1; USB Cable x 1; Telephone Cable x 1;
IEC-IEC Power Cord x 2; UPS User Manual; Warranty Card.

HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

1. Insure that the equipment plugged into the battery power-supplied outlets does not exceed the UPS unit's rated capacity (425VA/255W for UP425UIT, 550VA/330W for UP550UI, 750VA/450W for UP750UI). If rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down or the circuit breaker to trip.

2. If the power requirements of your equipment are listed in units other than Volt-Amps (VA), convert Watts (W) or Amps (A) into VA by doing the calculations below. Note: The below equation only calculates the maximum amount of VA that the equipment can use, not what is typically used by the equipment at any one time. Users should expect usage requirements to be approximately 60% of below value.

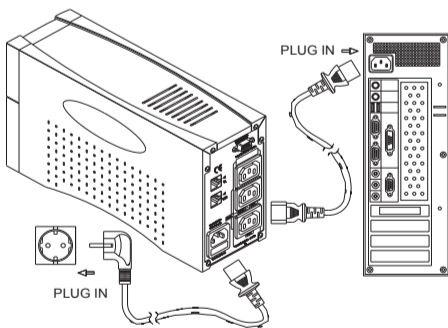
TO ESTIMATE POWER REQUIREMENTS

1. _____ Watts (W) x 1.6 = _____ VA or _____ Amps (A) x 230 = _____ VA

2. Add the totals up for all pieces of equipment and multiply this total by 0.6 to calculate actual requirements. There are many factors that can affect the amount of power that your computer system will require. The total load that you will be placing on the battery-powered outlets should not exceed 80% of the unit's capacity.

HARDWARE INSTALLATION GUIDE

1. Connect the equipment to your UPS outlets. The IEC-IEC power cords coming with the unit are used to connect your computer and monitor to the UPS. Items such as copiers, laser printers, vacuums, space heaters, or other large electrical devices should not be connected to the UPS. Please make sure that the total loads of your equipments are less than the maximum total power load of your UPS.



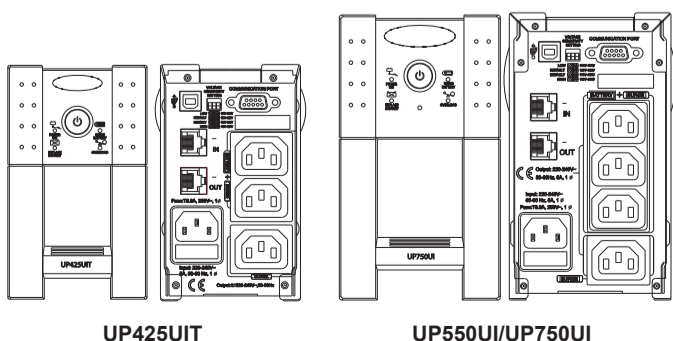
2. Use your computer power cord to connect the UPS to a wall outlet. Please avoid using extension cords and adapter plugs. (To maintain optimal battery charge, leave the UPS plugged in at all times.)

3. Press the UPS power button to turn it on. The "Power On" indicator will be illuminated in "Green".

4. Install your software and accessories. To use the software, simply connect the enclosed USB/Serial interface cable to the USB/Serial port on the UPS and an open USB/Serial port on the computer.

BASIC OPERATION

FRONT PANEL AND REAR PANEL DESCRIPTION



Power Switch

Press the power button to turn the UPS ON or OFF.



Power On Indicator

This LED is illuminated when the utility condition is normal and the UPS outlets are providing "clean power", free of surges and spikes.



Using Battery Indicator

This illuminates during utility failure, indicating that the battery is supplying power to the battery-power supplied outlets.



Replace Battery Indicator

The LED illuminates when the UPS battery is no longer useful and must be replaced. Please see manual "Battery replacement procedure".



Overload Indicator

The LED illuminates when the loads connected to the UPS exceed the UPS capacity.



Battery Backup and Surge Protection Outlets

The UPS provides battery powered and surge protected outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.



Surge Protection Outlets

The UPS provides surge protected only outlet for connected equipments against surges and spikes.



Fuse for Overload Protection

Fuse provide optimal overload protection. When overload occurs, the fuse will broken and UPS switches to battery mode. You will need to change the spare fuse that provided with the unit so the UPS will provide the power from utility.



USB Type B Port to PC

This Port allows connection and communication from USB port on the computer to the UPS unit. The UPS communicates its status to the PowerPanel® Personal Edition software. This interface is also compatible with the UPS service provided by Windows® 2000 and Windows® XP.



Contact Closure Serial Port to PC

This port allows connection and communication from the DB-9 serial on the computer to the UPS unit.

Note: Only one of the above two ports can be used to communicate with your computer at one time.

Note: To install PowerPanel® Personal Edition Software the computer will need Microsoft® Internet Explore 5.0 or higher installed.

Note: If using the Serial Port, users need to download PowerPanel® software from our website <http://www.cyberpower-eu.com> and order the standard serial cable.



Ethernet (RJ-45/11) Network Protection Ports

These ports are used for the protection of your network devices from the surge and spike through network cables.



Voltage Sensitivity Setting

These DIP switch setting is used for choosing the UPS input voltage sensitivity. The default value is 180Vac ~ 266Vac which is used for most the computer systems and switching power supply. The high sensitivity value is 196Vac ~ 256Vac which is used for some precision instruments. And the low sensitivity value is 160Vac ~ 278Vac which is used for the wild voltage power supplies.

BATTERY REPLACEMENT AND STORAGE

The below contents are for UP550UI/UP750UI only!

CAUTION! Read and follow the **IMPORTANT SAFETY INSTRUCTIONS** before servicing the battery. **Service the battery under the supervision of personnel knowledgeable of batteries and their precautions. Keep unauthorized personnel away from batteries.** If you have questions, **contact your dealer or call the number in this manual** for information on battery replacement.

CAUTION! Use only the specified type of battery. See your dealer for replacement batteries.

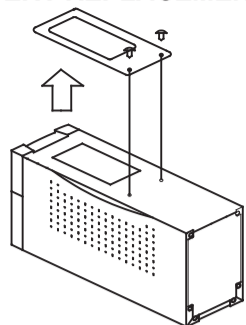
CAUTION! The battery may present the risk of electrical shock. **Do not dispose of batteries in a fire,** as it may explode. Follow all local ordinances regarding proper disposal of batteries.

CAUTION! Do not open or mutilate the batteries. Release electrolyte is harmful to the skin and eyes and may be toxic.

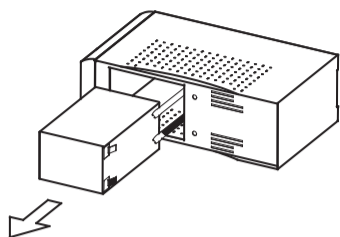
CAUTION! A battery can present a high risk of short circuit current and electrical shock. **Take the following precautions before replacing the battery:**

1. Remove all watches, rings or other metal objects.
2. Only use tools with insulated handles.
3. **DO NOT** lay tools or other metal parts on top of battery or any battery terminals.
4. Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source of ground. **CONTACT WITH A GROUNDING BATTERY CAN RESULT IN ELECTRICAL SHOCK!** The likelihood of such shock will be reduced if such grounds are removed during installation and maintenance (applicable to a UPS and a remote battery supply not having a grounded circuit).
5. Batteries are consider **HAZARDOUS WASTE** and must be disposed of properly. Contact your local government for more information about proper disposal and recycling of batteries.
6. Turn off and unplug all connected equipment.
7. Turn the UPS off and unplug it from the AC power source.
8. Turn the UPS upside down.
9. **Note!** The battery replacement is not available for UP425UIT.

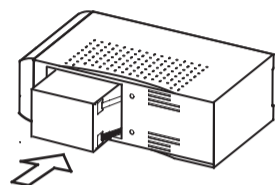
BATTERY REPLACEMENT PROCEDURE:



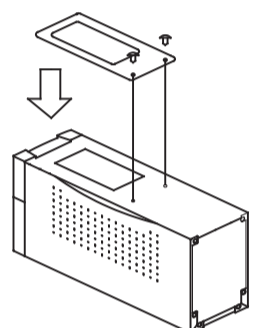
1. Remove the 2 retaining screws then push the battery cover backward and remove the cover.



2. Lean the UPS to one side and pull out the battery partially from the compartment. Disconnect the battery wires from the battery, and then remove the battery from the compartment.



3. Install the replacement battery by connecting the red wire to the positive (+) terminal of the battery and connecting the black wire to the negative (-) terminal of the battery.



4. Slide the battery back into the compartment. Turn the UPS upside down to help the batteries entirely slide into the compartment. Replace the cover and the retaining screws.

REMINDER: Recharge the unit for 4 – 8 hours to ensure the UPS performs expected runtime

STORAGE

First turn off your UPS and disconnect its power cord from the wall outlet. Disconnect all cables connected to the UPS to avoid battery drain. To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to insure battery life. If the battery remains uncharged for an extended period of time, it may suffer permanent loss of capacity.

TECHNICAL SPECIFICATIONS

Model	UP425UIT	UP550UI	UP750UI
Capacity (VA)	425VA	550VA	750VA
Capacity (Watts)	255W	330W	450W
Input			
Input Voltage Range	160Vac - 278Vac (User Configuration)		
Frequency Range	50 / 60 Hz		
Output			
On Battery Output Voltage	Simulated Sine Wave at 230Vac +/- 5%		
On Battery Output Frequency	50/60 Hz +/- 1%		
Overload Protection	On Utility: Fuse, On Battery: Internal Current Limiting		
Surge Protection and Filtering			
Lightning / Surge Protection	Yes		
Network Protection	RJ11/RJ45 (One In/One Out)		
Physical			
Total # of UPS Receptacles	2 (UPS) + 1 (Surge)	3 (UPS) + 1 (Surge)	
Maximum Dimensions (cm)	23.8 x 8.0 x 13.7	28.3 x 9.1 x 16.4	
Weight (Kg)	5	6.8	7.5
Battery			
Sealed Maintenance Free Lead Acid Battery	12V / 4.5 AH x1	12V / 8 AH x1	12V / 9 AH x1
User Replaceable	No	Yes, Hot Swappable Battery Pack	
Typical Recharge Time	8 Hours		
Warning Diagnostics			
Indicators	Power on, Using Battery, Overload, Replace Battery		
Audible Alarms	On Battery, Low Battery, Overload		
Environmental			
Operating Temperature	32°F to 95°F (0°C to 35°C)		
Operating Relative Humidity	0 to 95% Non-Condensing		
Communication			
PowerPanel® Personal Edition Software	Windows 98/ME/2000/NT/XP/Server 2003/Vista		
Management			
Self-Test			Yes
USB			Yes
Auto-Charger			Yes
Auto-Restart			Yes

All specifications are subject to change without notice.

TROUBLE SHOOTING

Problem	Possible Cause	Solutions
The UPS does not perform expected runtime.	Batteries are not fully charged.	Recharge the battery by leaving the UPS plugged in.
	Battery is slightly worn out.	Contact CyberPower Systems at service@cyberpower-eu.com .
The UPS will not turn on.	The on/off switch is designed to prevent damage by rapidly turning it off and on.	Turn the UPS off. Wait 10 seconds and then turn the UPS on.
	The unit is not connected to an AC outlet.	The unit must be connected to a 220-240V 50/60Hz outlet.
	The battery is worn out.	Contact CyberPower Systems at service@cyberpower-eu.com
	Mechanical problem.	Contact CyberPower Systems at service@cyberpower-eu.com
Outlets do not provide power to equipment	Fuse is blown due to overload.	Turn the UPS off and unplug at least one piece of equipment. Unplug the power cord of the UPS then remove the fuse compartment beneath the power inlet of the UPS and replace the blown fuse with a spare one. Lock the compartment back to the UPS. Connect power cord then turn the UPS on. Make sure that your spare fuse meets the specification : 6.3A, 250V, 5x10mm.
	Batteries are discharged.	Allow the unit to recharge for at least 4 hours.
	Unit has been damaged by a surge or spike.	Contact CyberPower Systems at service@cyberpower-eu.com .
PowerPanel® Personal Edition is inactive (all icons are gray).	The USB cable is not connected.	Connect the USB cable to the UPS unit and an open USB port on the back of the computer. You must use the cable that came with the unit.
	The USB cable is connected to the wrong port.	Try another USB port of your computer.
	The unit is not providing battery power.	Shut down your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.
	The USB cable is not the cable that was provided with the unit.	You must use the cable included with the unit for the software.

For more information, please contact:

CyberPower Systems (USA), Inc. 4241 12th Avenue East Suite 400 Shakopee, MN 55379
CyberPower Systems B. V. (Europe) Flight Forum 3545,5657DW Eindhoven, The Netherlands

DEFINITIONS FOR ILLUMINATED LED INDICATORS

Power On	Using Battery	Replace Battery	Overload	Fuse	Alarm	Condition
On	Off	Off	Off	Normal	Off	Normal
Off	On	Off	Off	Normal	Two Beeps	Utility Failure- The UPS is providing battery power to battery-power supplied outlets.
Off	On	Off	Off	Normal	Rapid Beeps	Utility Failure- The UPS is providing battery power. Rapid beeps indicate the unit will run out of power shortly.
On	Off	Off	On	Blown	Long Beeps	System Overload- Occurs in the full-time surge protection outlet. Turn the UPS off, unplug at least one piece of equipment from UPS. Replace the fuse with the spare one then turn the UPS on.
Off	On	Off	On	Normal	Long Beeps	Battery Overload- Occurs when connected equipment exceeds the rating of battery outlets of the unit. Turn the UPS off, unplug at least one piece of equipment from battery outlets. Check the fuse and do the replacement if necessary. Turn the UPS on.
On	Off	On	Off	Normal	Beep	Replace Battery- UPS battery is no longer useful and must be replaced. Please see manual "Battery replacement procedure".

CyberPower warrants to you, the original purchaser, that CyberPower UPS will be free from defects in design, assembly, materials and workmanship for two years (battery is only one year) from the date of original purchase. Any warranty services, please contact your local dealers or distributors.

Phone: (952)403-9500 Fax: (952)403-0009 www.cyberpowersystems.com
Phone: 31 (0)40 2348170 Fax: 31 (0)40 2340314 eu.cyberpowersystems.com

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