



UPS 500 VA (BC100030) / UPS 600 VA (BC100040) / UPS 700 VA (BC100050) / UPS 800 VA (BC100060)

## Advantages

- Automatic voltage control - The voltage control increases or lowers the voltage between the mains input and the output at the optimum level. If voltage limits are exceeded and if the AVR detects undervoltage or overvoltage, the UPS will signal this and the voltage will again be brought to an optimal level.
- If the mains voltage fails - A pulsating acoustic signal shall warn you when the mains voltage fails.

## Most important characteristics

- Complete power protection
- Automatic recharging of the batteries
- Maintenance-free batteries

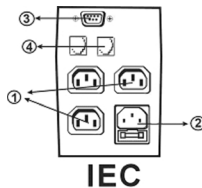
## Remarks

Before commencing full-fledged operation of the UPS, you should first charge it for eight hours. After eight hours, the charging process of the battery will be controlled by the electronic devices of the UPS itself. Do not connect laser printers to the UPS, since they consume a lot of power.

## Description of the UPS

LED & Indicator

Status	LED				Acoustic alarm
	green	orange	red	none	
AC mode	■	□	□	□	□
Battery mode	□	■	□	□	□
Replacement battery	□	□	■	□	■
Overcharging	□	□	■	□	■
Low battery voltage	□	■	□	□	■

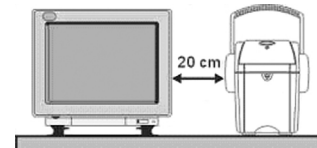


- Rear side -
1. Output(s)
  2. AC input including AC fuse
  3. Communication port (RS 232)
  4. Telephone/modem protection (optional)

## Installation and usage

### Installation

Leave the Sweex UPS on at all times.  
Place the Sweex UPS on a flat surface.  
In order to prevent fire or electrical shocks, do not expose the device to rain or a moist atmosphere.  
Ensure that the UPS is at least 20 cm away from the monitor.



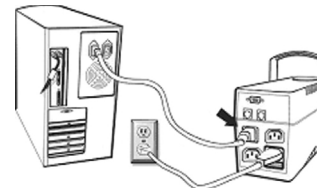
### Charging

The UPS is fully charged at the factory itself, but during transportation, the battery may get discharged. For this reason we recommend that you charge the Sweex UPS for at least 8 hours before use.



### Connecting your hardware

Connect a computer-related product to the back of the UPS. You may connect a maximum of three devices.



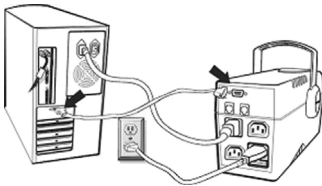
### Modem / telephone line connection (optional)

You may connect the incoming telephone line to the "In" contact on the back of the UPS. You may connect the modem or telephone at the "Out" contact of the UPS.



### RS 232 Communication cable

In order to switch off the system automatically, use a 9-pole RS 232 cable. You may connect this as shown in the figure below.

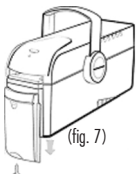


### Switching on/off

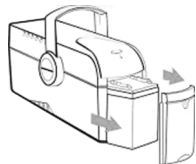
Press the power button at the top to switch on the Sweex UPS. Press this button again to switch off the UPS.

### Removal of the battery

The figures below show how you can remove the battery from the Sweex UPS. First remove the screw with which the sliding flap is fixed. (See fig. 7). After you have removed the sliding flap, you may remove the battery from the UPS. You may then carefully push out the two connecting wires (see figure 8) that are connected to the battery from the battery lips.



(fig. 7)



(fig. 8)

### Removing the handle

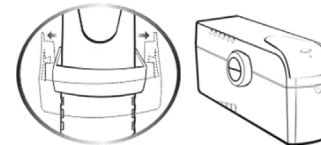
Push back the handle and remove the two protective covers. In order to prevent damage you should only remove the protective covers after the handle has been fully pushed to the back.



Chart 1

Chart 2

Now remove the handle and replace the two protective covers.



### Software installation

Commander Pro is a unique program for monitoring the UPS.

### Characteristics:

- If necessary, save the files before you shutdown the server.
- Task planner for shutting down the server
- Overview of the UPS status
- Possibility of warning via e-mail
- User-friendly interface
- Multi-lingual version



### You may download Commander Pro from Sweex

Go to the Sweex website: <http://www.sweex.com>

Select the group 'Security' and then click 'UPS'.

Select the relevant UPS, you will find the Commander Pro program here.

To install the software, use the following serial number: 511C1-01220-0100-478DF2A

### Tips in the case of irregularities

Symptom	Possible cause	Possible solution
A LED indication on the UPS.	1. Battery is fully discharged.	1. Charge the battery for at least 8 hours.
	2. Battery is defective.	2. Replace the battery with a battery of the same type
	3. The UPS is switched off.	3. Keep the power switch pressed for at least five seconds.
Acoustic alarm sounds although the mains voltage is present.	The UPS is overloaded.	Check whether an excessive number of devices has been connected to the UPS
Back-up time of the UPS is very low.	1. The UPS is overloaded	1. Disconnect a device from the UPS.
	2. Battery voltage is too low.	2. Charge the battery for at least 8 hours.
	3. Battery is defective.	3. Replace the battery with a battery of the same type.
The communication between the computer and the UPS has been interrupted.	1. Software has not been installed correctly.	1. Check the software settings
	2. RS 232 cable has not been connected correctly.	2. Check whether the RS 232 cable been correctly connected to the Com 1 or 2. Check the installed software.
The orange LED is lighted and the mains voltage.	1. The fuse is defective.	1. Replace the fuse.
		2. The mains cable is loose or defective.

### Specifications

MODEL		Line Interactive 500	Line Interactive 600	Line Interactive 700	Line Interactive 800
CAPACITY	VA	500 VA	600 VA	700 VA	800 VA
	W	300 W	360 W	420 W	480 W
INPUT	Voltage	120 or 220 / 230 / 240 VAC			
	Voltage range	+ 20% and - 25%			
OUTPUT	Voltage	120 or 220 / 230 / 240 VAC			
	Voltage control system (Battery Mode)	+ / - 10%			
	Frequency	50 Hz or 60 Hz			
	Frequency Control (Battery Mode)	+ / - 1 Hz			
	Output Wave form	Modified Sine wave			
BATTERY	Battery type	12 V/7 Ah x 1pc			12 V/9 Ah x 1 pc
	Back-up time	15-30 minutes (With a PC + 15" monitor)			
	Charging time	8 hours to 90% after full discharging			
TRANSFER TIME	Typical	2-6 ms			
LED INDICATION	AC mode	Colour of the LED - green			
	Back-up mode	Colour of the LED - orange			
	Overcharging/ Battery defective	Colour of the LED - red			
ACOUSTIC ALARM	Back-up mode	Warning tone every 10 seconds			
	Low Battery voltage	Warning tone every 1 second			
	Overloading	Warning tone every 0.5 second			
PROTECTION	Protection on	Undervoltage and overvoltage, peak voltages, short circuiting and AC/DC fuse			
DIMENSIONS DxWxH	With handle	320 X 120 X 200 mm			
	Without handle	320 X 120 X 143 mm			
WEIGHT	Net weight	6.4 kg	6.4 kg	6.4 kg	7.0 kg
ENVIRONMENT	Ambient conditions	0-40 °C at full load, 0-90 % relative humidity (no condensate)			
	Noise level	Less than 40dB			
INTERFACE	RS-232 / 9- pole	Supports Win 98SE, Win 2000 and Windows XP			

## Safety - CAUTION!

This UPS utilizes voltages that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user serviceable parts. Only factory service personnel may perform repairs. Connection to any other type of receptacle other than a two-pole, three-wire grounding receptacle may result in electrical shock hazard as well as violate local electrical codes. In the event of an emergency, turn the power switch to the "off" position and disconnect the power cord from the AC power supply to properly disable the UPS. Do not allow liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit. Avoid installing the UPS in locations where there is standing or running water, or excessive humidity. Do not plug the UPS' power cord into itself. Do not attach a power strip or surge suppressor to the UPS. Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to the UPS. To reduce the risk of overheating the UPS, do not cover the UPS' cooling vents and avoid exposing the unit to direct sunlight or installing the unit near heat emitting appliances such as space heaters or furnaces. Unplug the UPS prior to cleaning and do not use liquid or spray detergent. Do not dispose of battery or 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. It may be toxic. A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear rubber gloves and boots.

Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries. When replacing batteries, replace with the same number and type of the sealed lead-acid batteries.

During the installation of this equipment, make sure that the sum of the leakage currents of the UPS and the connected loads do not exceed 3.5mA. The main socket outlet that supplies the UPS should be installed near the UPS and should be easily accessible. This pluggable type A equipment, with battery already installed by the supplier, is operator installable and may be operated by laymen.

### ATTENTION: ELECTRICAL SHOCK HAZARD!

Even when disconnected from the main power supply, electrical shock hazard exists, because of the power supply from the battery.