

## Line-interactive UPS PowerWalker VI 500/750/1000/1500 R1U User Manual

K01-C000402-01

### IMPORTANT SAFETY INSTRUCTIONS

(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.

**CAUTION!** To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (See the specifications for the acceptable temperature and humidity range.)

**CAUTION!** 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.

**CAUTION!** Do not attach non-computer-related items, such as medical equipment, life-support equipment, microwave ovens, or vacuum cleaners to UPS.

**CAUTION!** Do not plug the UPS input into its own output.

**CAUTION!** 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.

**CAUTION!** In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.

**CAUTION!** Do not attach a power strip or surge suppressor to the UPS.

**CAUTION!** Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

### INSTALLING YOUR UPS SYSTEM

#### UNPACKING

The box should contain the following:

(1)UPS Unit×1; (2)User Manual×1;

#### HOW TO DETERMINE THE POWER REQUIREMENTS OF YOUR EQUIPMENT

1. Ensure that the equipment plugged into the battery power-supplied outlets does not exceed the UPS unit's rated capacity. If rated unit capacities are exceeded, an overload condition may occur and cause the UPS unit to shut down or the fuse blow.
2. There are many factors that can affect the amount of power that your computer system will require. For optimal system performance keep the load below 80% of the unit's rated capacity.

#### HARDWARE INSTALLATION GUIDE

1. Your new UPS may be used immediately upon receipt. However, recharging the battery for at least 8 hours is recommended to ensure that the battery's maximum charge capacity is achieved. Charge loss may occur during shipping and storage. To recharge the battery, simply leave the unit plugged into an AC outlet. The unit will charge in both the on and off position.
2. With the UPS unit off and unplugged, connect the computer, monitor, and any externally powered data storage device.
3. Plug the UPS into a 2 pole, 3 wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands.
4. Depress the power switch to turn the unit on. The LCD indicator light will illuminate and the unit will "beep".
5. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
6. To store your UPS for an extended period, cover it and store with the battery fully charged. Recharge the battery every three months to ensure battery life.

### ROUTINE MAINTENANCE AND STORAGE

#### ROUTINE MAINTENANCE

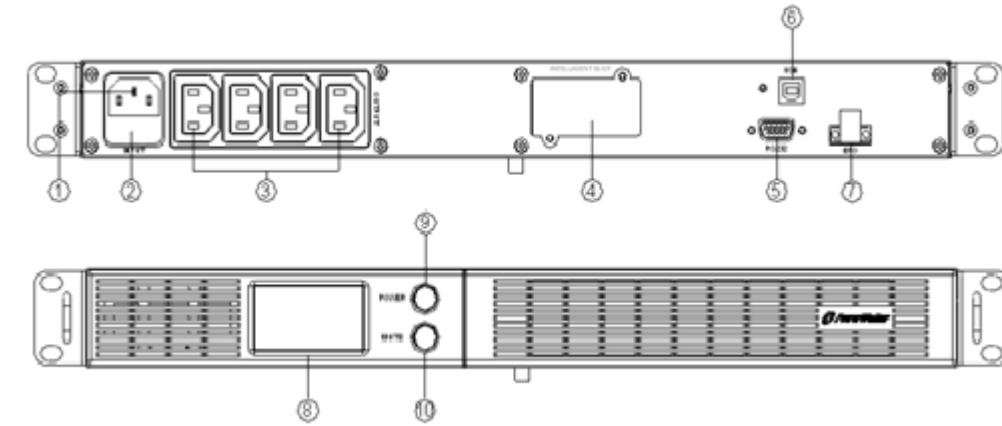
1. Use dry soft clothes to clean the front panel and plastic parts. Do not use any detergent that contains alcoholic ingredient.
2. The expected lifetime of the battery is around 3 years. Improper operation and harsh environment will reduce the actual lifetime.
3. Unplug the UPS from power inlet if the UPS will not operate for long period of time.

#### STORAGE

1. First turn off your UPS and disconnect its power cord from the wall outlet. Disconnect all cables connected the UPS to avoid battery drain.
2. The UPS should be stored in a cool dry location.
3. Make sure the battery is fully charged before the UPS is stored.
4. For extended storage in moderate climates, the battery should be charged for 12 hours every 3 months by plugging the power cord into the wall receptacle and turning on the main switch. Repeat it every 2 months in high temperature locations.

### BASIC OPERATION

#### FRONT AND TOP PANEL DESCRIPTION



PowerWalker VI 500/750/1000/1500 R1U

1. **AC Inlet**  
Connect to utility power through the input power cord.
2. **Input Circuit Fuse**  
The fuse provides optimal overload protection.
3. **AC outlet**  
The UPS provides outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.
4. **SNMP/HTTP Network Port**  
The SNMP/HTTP port provides remote monitoring and management of your UPS over a network.
5. **Serial Port**  
This port allows connection and communication from the DB9 serial on the computer to the UPS unit. The UPS communicates its status to the software.
6. **USB Port**  
This port allows connection and communication from the USB port on the computer to the UPS unit.
7. **EPO Port**  
Enables an emergency UPS Power-Off from a remote location. EPO terminal open, the UPS will turn off and the output shutdown immediately.
8. **LCD Display**  
The LCD will display the UPS status including input voltage, output voltage, runtime, percentage of load and battery, etc.
9. **Power On/Off Switch**  
Press the power switch to turn the UPS ON or OFF.
10. **Mute Button**  
The audible alarm can be turned off/on by pressing this button.

### SOFTWARE DOWNLOAD

Power Master management software provides a user-friendly interface for your power systems. The graphic user-interface is intuitive and displays essential power information at a glance. Please follow procedure below to install the software.

#### **Installation procedure:**

1. Download Power Master from the website:  
<http://www.powermaster.powerwalker.com>
2. Double-click the file and follow the installation steps.
3. When your computer restarts, the Power Master software will appear as a blue icon located in the system tray.

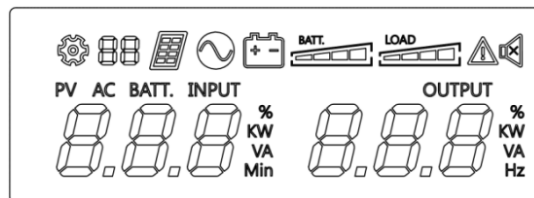
System Summary		UPS Status	
<b>UPS</b>	Status	Input	
Information	Normal	Status	Normal
Configuration	229.9 V	Voltage	229.9 V
Diagnostics	49.90 Hz	Frequency	49.90 Hz
Load		Load	
<b>Event Action</b>		Output	
Events	Status	Status	Normal, ECO Mode
Recipient	Voltage	Voltage	230.0 V
Settings	Frequency	Frequency	49.90 Hz
<b>Logs</b>	Load	Load	0 % (0 Watts)
Event Logs		<b>Battery</b>	
Status Records		Status	Normal, Charging
Settings		Capacity	46 %
<b>Schedule</b>			
Shutdown			

## TECHNICAL SPECIFICATIONS

Model	PowerWalker VI 500 R1U	PowerWalker VI 750 R1U	PowerWalker VI 1000 R1U	PowerWalker VI 1500 R1U
Capacity (VA)	500VA	750VA	1000VA	1500VA
Capacity (Watts)	300W	450W	600W	900W
<b>Input</b>				
Input Voltage Range	165V~290V			
Frequency Range	50Hz +/- 5 Hz			
<b>Output</b>				
On Battery Output Voltage	Sine Wave at 230Vac +/-10%			
On Battery Output Frequency	50Hz +/-1%			
Overload Protection	On Utility: Fuse, On Battery: Internal Current Limiting			
<b>AVR Function</b>				
Boost Function	Yes			
Buck Function	Yes			
<b>Physical</b>				
Total # of UPS Receptacles	IEC C13 x 4			
Maximum Dimensions (H x D x W)	44mm x 216mm x 433mm		44mm x 485mm x 433mm	
Weight (Kg)	7.6	8.6	14.2	16.2
<b>Battery</b>				
Sealed Maintenance Free Lead Acid Battery	6V / 7AH x2	6V / 9AH x2	6V / 7AH x4	6V / 9AH x4
Typical Recharge Time	8 Hours			
<b>Warning Diagnostics</b>				
Indicators	Using AC / Using Battery / Fault			
<b>Communication</b>				
Software	Windows10/ 8/ 7/ Server2012 /2008 R2, Linux&Mac			
<b>Environmental</b>				
Operating Temperature	0°C to 40°C			
Operating Relative Humidity	0 to 90% NON-CONDENSING			
<b>Management</b>				
Auto-Charger	Yes			
Auto-Restart	Yes			

## DEFINITIONS FOR ILLUMINATED LCD INDICATORS

LCD Indication



	Line mode		Bat-mode
	Alarm/Fault		Sound disable (Press the mute key 3s to disable and enable the buzzer sound)
	Bat mode: battery capacity Line mode: 1. Battery charging: cycle lighting 2. Battery full charged: lighting 3. Line mode without charger: battery capacity		Load capacity

	PV AC BATT. INPUT 	OUTPUT 
Initial	AC INPUT(Voltage) V 	OUTPUT (Voltage) V 

## Alarm DEFINITIONS

Alarm	Condition
Off	Normal
Beep 1 time In Every 30 Seconds	Utility Failure - The UPS is providing battery power to outlets.
Beep 1 time In Every 2 Seconds	Utility Failure - The UPS is providing battery power. The rapid beeps indicate the battery will run out of power shortly.
Beep 1 time In Every 0.5 Second	Overload - Occurs when connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at least one piece of equipment from the UPS.

## TROUBLE SHOOTING

Problem	Possible Cause	Solution
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 Technical Support.
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 50Hz outlet.
	The battery is worn out.	Contact Technical Support.
Outlets do not provide power to equipment	Mechanical problem.	Contact Technical Support.
	Fuse is blown due to overload	Turn the UPS off and unplug at least one piece connected 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.
	Batteries are discharged	Allow the unit to recharge for at least 4 hours.
Software is inactive	Unit has been damaged by a surge or spike.	Contact Technical Support.
	The network cable is not connected.	Connect the network cable to the UPS unit and a network port on the hub.
	Software setting problem.	Please read and follow NetAgent utility instruction during installation and operation of the NetAgen software, or contact technical support.

Fault		
Fault code F09	Output Short : Output circuit short.	1. Shut down the UPS 2. Your attached equipment may have problems, please remove them and check again.
Fault code F12	Battery Low : Battery voltage is too low.	1. Shut down the UPS 2. Check the counts of Battery 3. Check battery connector when use battery packages.
Fault code F14	Overload in line Mode: Your equipment requires more power than the UPS can provide. It will shutdown.	Shut off non-essential equipment. If this solves the overload problem, the UPS will transfer to normal operation.
Alarm		
Alarm code A06	Battery low: Battery capacity is low, UPS will turn off soon	Shut off non-essential equipment. Save your data and turn off computer.
Alarm code A14	Over load occurs.	Shut off non-essential equipment.

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