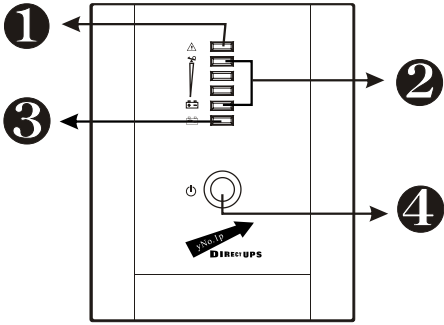




System Description

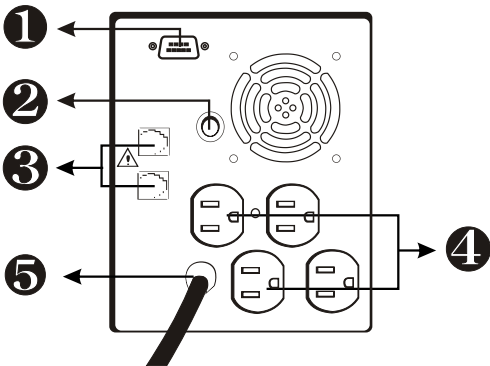
Front Panel --

- 1. Fault LED
- 2. AC Mode : Load Level LEDs
Backup Mode : Battery Capacity LEDs
- 3. AC Mode : Green lighting
Backup Mode : Green flashing
- 4. Power "ON/OFF" Switch



Back Panel --

- 1. Communication Port
- 2. Circuit Breaker
- 3. Modem/Phone Line Surge Protection
- 4. Battery Backup Outlets
- 5. AC Input



Specification

MODEL		Vesta Pro 1000	Vesta Pro 1400	Vesta Pro 2000
CAPACITY	VA/W	1000VA/600W	1400VA/840W	2000VA/1080W
INPUT	Voltage	110V/120V		
	Voltage Range	90-140VAC		
	Frequency	45 - 65Hz (Auto sensing)		
OUTPUT	Voltage	110V/120V		
	Voltage Regulation (Batt. Mode)	+/- 10%		
	Frequency	50Hz or 60Hz		
	Frequency Regulation (Batt. Mode)	+/- 1Hz		
	Power Factor	0.6		
	Output Waveform	Modified Sinewave		
	Battery Type & Number	12V/7Ah x2pcs	12V/9Ah x 2pcs	
BATTERY	Backup Time (at 2-PC load with 15" monitor)	20 minutes	25 minutes	26 minutes
	Recharge Time	8 hours to 90% after complete discharge		
TRANSFER TIME	Typical	4-6 ms		
INDICATOR	AC Mode	The 1st green LED lighting, and the 2nd to 5th green LEDs gradually lighting indicating load level		
	Backup Mode	The 1st green LED flashing, and the 2nd to 5th green LEDs gradually lighting indicating battery capacity		
	Fault	Red LED lighting		
AUDIBLE ALARM	Backup Mode	Sounding every 10 seconds		
	Low Battery	Sounding every second		
	Overload	Sounding every 0.5 seconds		
	Fault	Continuously Sounding		
PROTECTION	Surge Suppression	90 Joules		
	Full Protection	Discharge, overcharge, and overload protection		
PHYSICAL	Dimension DxWxH	14.5"x5.5"x7.1" (368.3mmx140.2mmx180.4mm)		
	Net Weight	30.4lb. (13.8kg)	31.3lb. (14.2kg)	35.3lb. (16kg)
	Outlets	NEMA5-15R x 4 (4 battery backup)		
	Operating Environment	0-40 °C, 0-90% relative humidity (non-condensing)		
ENVIRONMENT	Noise Level	Less than 40dB		
INTERFACE	Smart RS-232	Support windows family, Linux, Sun Solaris, IBM-Aix, HP-UX, Compaq True64, FreeBSD, UnxiWare and MAC		



Trouble Shooting

Symptom	Possible Cause	Remedy
No LED display on the front panel.	1. Missing battery.	1. Charge battery up to 8 hours.
	2. Battery defect.	2. Replace with the same type of battery.
	3. Power switch is not pressed at least 5 seconds.	3. Press power switch for at least 5 seconds.
Alarm buzzer beeps continuously when AC supply is normal.	Overload of the UPS.	Verify that the load matches the UPS capability specified in the specs.
When power failure, back-up time is shorten.	1. Overload of the UPS.	1. Remove some noncritical load.
	2. Battery voltage is too low.	2. Charge battery 8 hours or more.
	3. Battery defect due to high temperature operation environment, or improper operation to battery.	3. Replace with the same type of battery.
Communication lost between UPS and computer.	1. Software is not installed well.	1. Check the setting of the software .
	2. Cable is not properly connected.	2. Check the RS-232 cable is firmly connected to COM1/COM2 of the computer and confirm the setting again.
Mains normal but green LEDs are on.	1. Circuit breaker is broken.	1. Reset the circuit breaker..
	2. Power cord is loose.	2. Reconnect the power cord properly.

28-2VES000001

1st Edition, 2004

Uninterruptible Power Supply



Direct UPS

Vesta Pro 1000/1400/2000

USER MANUAL

YN0.1p



Runtime table

Typical Runtime in Minutes		
Vesta Pro 1000VA	Vesta Pro 1400VA	Vesta Pro 2000VA
with 17" Monitor Desktop PC Minutes 40	with 17" Monitor Desktop PC Minutes 45	with 17" Monitor Desktop PC Minutes 48
with 15" Monitor Desktop PC Minutes 50	with 15" Monitor Desktop PC Minutes 60	with 15" Monitor Desktop PC Minutes 60 + 5

- Safety -- Caution!!
Unplug the UPS prior to cleaning and do not use liquid or spray detergent.
- Do not dispose of batteries in a fire as they may explode.
- Do not open or mutilate the battery or batteries. Release 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:
1) Remove watches, rings, or other metal objects from the hands.
2) Use tools with insulated handles.
3) Wear rubber gloves and boots.
4) Do not lay tools or metal parts on top of batteries.
5) Disconnect charging source prior to connecting or disconnecting batteries terminal.
- 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 or sealed lead-acid battery.



IMPORTANT SAFETY INSTRUCTION

SAVE THESE INSTRUCTION-This manual contains important instructions for models Vesta Pro1000, Vesta Pro1400, and Vesta Pro 2000 that should be followed during installation and maintenance of the UPS and batteries.

Safety -- Caution!!

- DO NOT plug a laser printer, copier, space heater, vacuum or other large electrical device into the UPS.
- This UPS utilizes voltage that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- Internal battery voltage is 24Vdc.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in shock hazard as well as violate local electrical codes.
- 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.
- Do not allow any liquids or any foreign object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.
- 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 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 heater or furnaces.



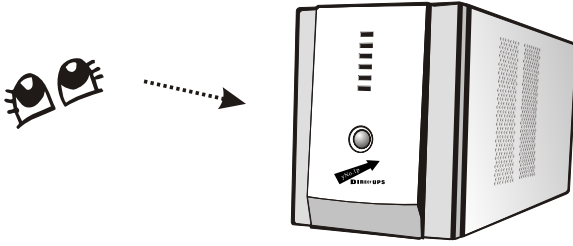
Installation and Operation

Installing the UPS is as easy as following the steps shown below. Be aware of the Power Switch must be kept in the "ON" position, otherwise, the UPS will be disabled and your equipment will not be protected during a power failure.

1

Inspection

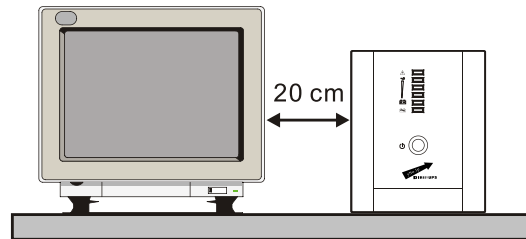
Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, re-pack the unit and return it to the place of purchase.



2

Placement

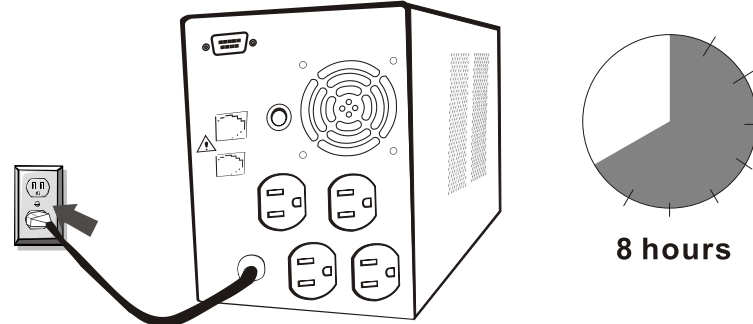
Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high. On the other hand, place the UPS unit away from the monitor at least 20cm to avoid interference.



3

Charging

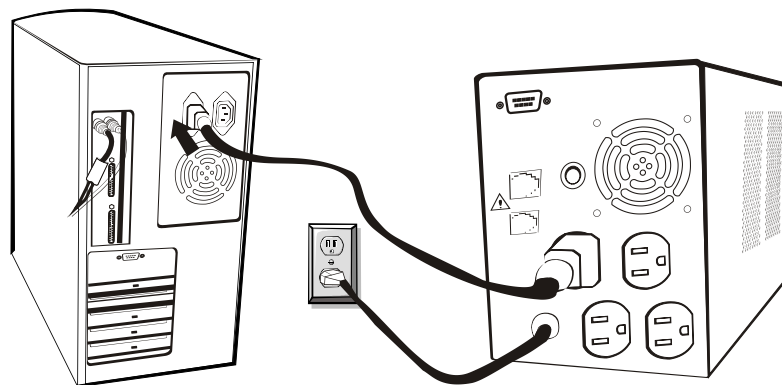
This unit is shipped from the factory with its internal battery fully charged, however, some charge may be lost during shipping and the battery should be recharged prior to use. Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 8 hours.



4

Computer Connection

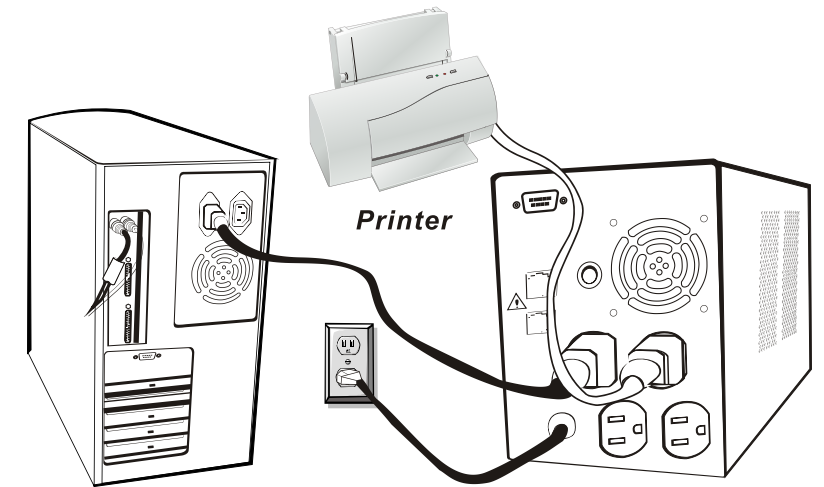
Connect one computer-related device into each of the power receptacles supplied on the back of the UPS.



5

Peripheral Equipment Connection

Plug your peripheral equipment (printer, scanners, speakers) into the back of the UPS.

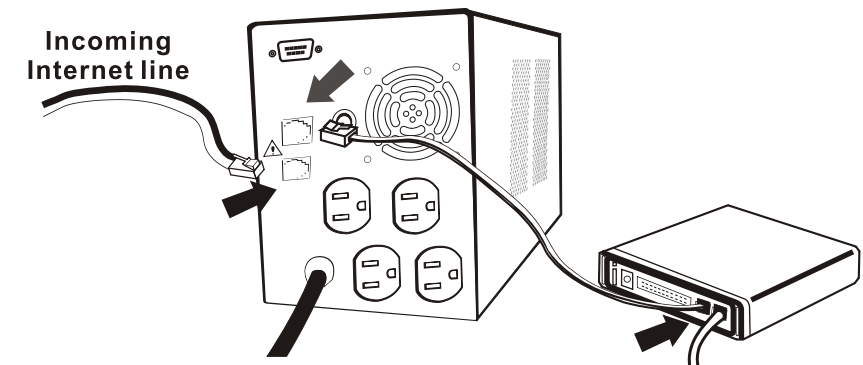


Note: DO NOT plug a laser printer, copier, space heater, vacuum or other large electrical device into the UPS. The power demands of these devices will overload and possibly damage the unit.

6

Modem/Phoneline Connection

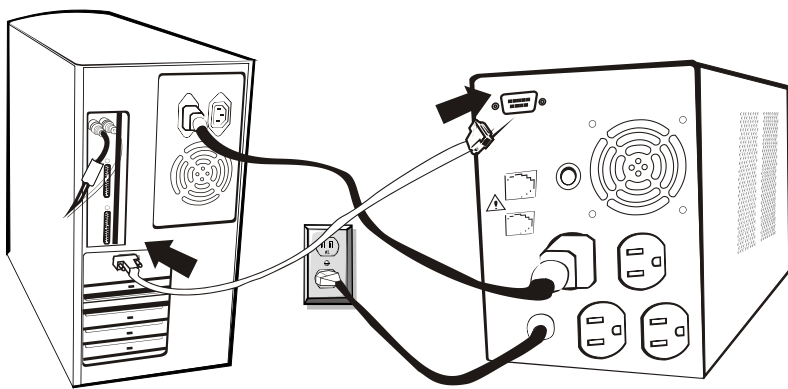
Plug incoming internet line into the "In" socket at the back of the UPS. Use on more Internet line cable and plug one end of the Internet line cable to the "Out" socket at the back of the UPS. Plug the other end of the modem input socket as shown below.



7

Serial cable Connection

To allow for unattended system shutdown for your operating system, connect the serial cable as per diagram below.



8

Turn On/Off

Vesta Pro Series will be turned on automatically at first plug-in. At this moment, press power switch lightly to turn off the UPS. To turn on the UPS again, just simply press power switch again. Please DO NOT punch it for extended life of the power switch.

9

DC Start Function

DC Start Function enables UPS to be started up when AC utility power is not available and battery is fully charged. Just simply press the power switch to turn on the UPS.

10

Battery Replacement

Follow Chart 1 to Chart 3 to replace the battery. Disconnecting all sources of supply before battery replacement.

Remove the panel

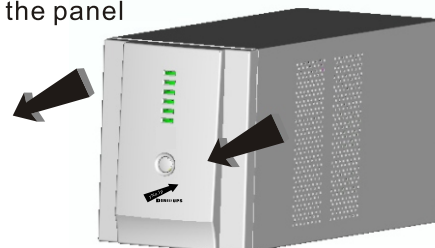


Chart 1

Remove the battery cover

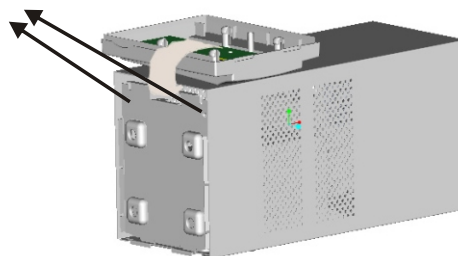


Chart 2

After removing the battery cover, gently extract the battery by disconnecting the two wires connecting it to the UPS. Be sure replaced the same type of batteries and dispose of old battery properly at an appropriate recycling facility.

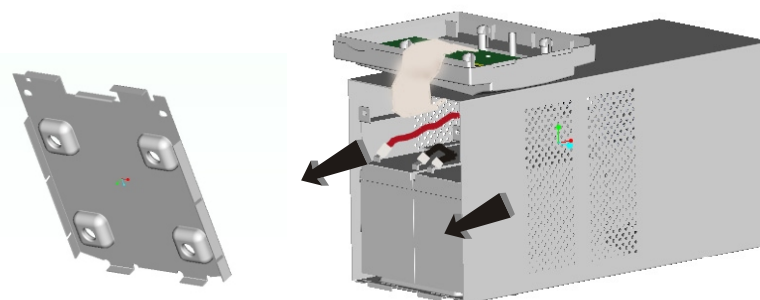
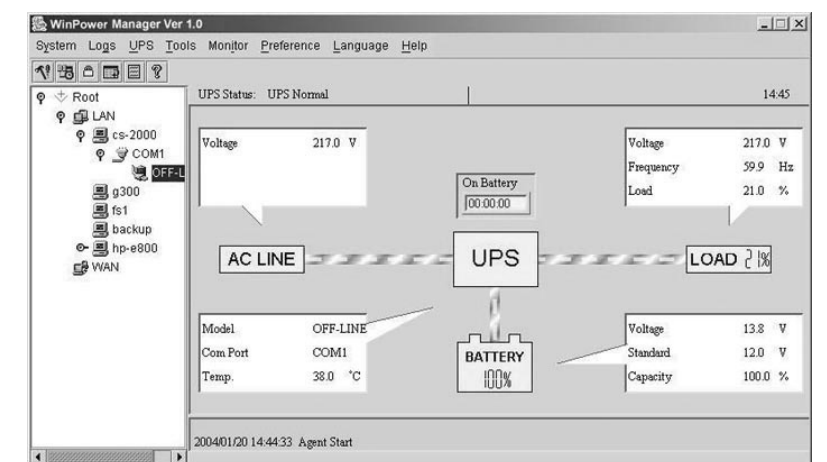


Chart 3



Free Software Download -- WinPower --

WinPower is a brand new UPS monitoring software, which provides user-friendly interface to monitor and control your UPS. This unique software provides safely auto shutdown for multi-computer systems while power failure. With this software, users can monitor and control any UPS on the same LAN no matter how far from the UPSs.



Installation procedure:

1. Go to the website:
<http://www.ups-software-download.com/winpower.htm>
2. Choose the operation system you need and follow the instruction described on the website to download the software.
3. When downloading all required files from the internet, enter the serial No: 511C1-01220-0100-478DF2A to install the software.

When your computer restarts, the WinPower software will appear as a green plug icon located in the system tray, near the clock.