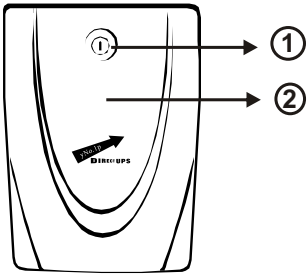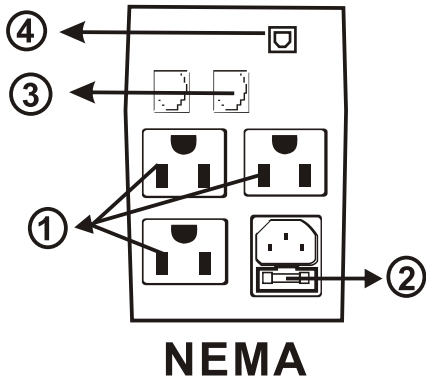## System Description

Front Panel --

1. Power Switch
2. LED Indicators --
   AC Mode: Green Lighting
   Battery Mode: Green Flashing

Back Panel --

1. Output receptacles
2. AC Input with AC fuse
3. Modem/Phoneline Surge Protection
4. USB

NEMA

Specification

MODEL		Vesta Pro 400	Vesta Pro 600	Vesta Pro 800
CAPACITY	VA/W	400VA/240W	600VA/360W	800VA/480W
INPUT	Voltage	110VAC/120VAC		
	Voltage Range	85-145VAC		
	Frequency	45 - 65Hz (Auto sensing)		
OUTPUT	Voltage	110VAC120VAC		
	Voltage Regulation (Batt. Mode)	+/- 10%		
	Frequency	50Hz or 60Hz		
	Frequency Regulation (Batt. Mode)	+/- 1Hz		
	Power Factor	0.6		
	Output Waveform	Modified Sinewave		
BATTERY	Battery Type & Number	12V/4.5Ah x1pcs	12V/7Ah x1pc	12V/9Ah x1pc
	Backup Time (at a PC load)	10 minutes	20 minutes	29 minutes
	Recharge Time	8 hours to 90% after complete discharge		
TRANSFER TIME	Typical	2-6 ms		
INDICATOR	AC Mode	Green lighting		
	Backup Mode	Green flashing		
AUDIBLE ALARM	Backup Mode	Sounding every 10 seconds		
	Low Battery	Sounding every second		
	Overload	Sounding every 0.5 seconds		
	Battery Replacement	Sounding every 2 seconds		
	Fault	Continuously Sounding		
PROTECTION	Surge Suppression	90 Joules		
	Full Protection	Discharge, overcharge, and overload protection		
PHYSICAL	Dimension DxWxH	13"x4"x5.5" (330mmx100mmx140mm)		
	Net Weight	11 lb. (5kg)	13.2 lb. (6kg)	14.3 lb. (6.5kg)
	Outlets	NEMA 5-15Rx3 (3 battery backup)		
ENVIRONMENT	Operating Environment	0-40°C, 0-90% relative humidity (non-condensing)		
	Noise Level	Less than 40dB		
INTERFACE	USB	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 the 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, backup 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.
Mains normal but LED is flashing.	1. Fuse is blown.	1. Replace the same type of fuse.
	2. Power cord is loose.	2. Reconnect the power cord properly.

If any abnormal situations occur that are not listed above, please call service people immediately.

USER MANUAL

Direct UPS
YNo.1p

Vesta Pro 400/600/800

Uninterruptible Power Supply

Runtime table

Typical Runtimes in Minutes

Vesta Pro 400VA Battery Runtimes	Vesta Pro 400VA Battery Runtimes	Vesta Pro 400VA Battery Runtimes
Desktop PC with 15" Monitor — 10 Minutes	Desktop PC with 15" Monitor — 20 Minutes	Desktop PC with 15" Monitor — 29 Minutes
Desktop PC with 17" Monitor — 8 Minutes	Desktop PC with 17" Monitor — 19 Minutes	Desktop PC with 17" Monitor — 22 Minutes

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 of sealed lead-acid battery.

IMPORTANT SAFETY INSTRUCTION
SAVE THESE INSTRUCTION

This manual contains important instructions for models Vesta Pro 400, Vesta Pro 600, and Vesta Pro 800 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 12Vdc.
- 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.

Introduction

This UPS is specially designed for Personal Computer with multi-functions. Its light weight, compact design perfect fits to the limited working environment. The line of UPS is equipped with boost and buck AVR to stabilize input voltage range. It is also built-in with DC start function. This function enables the UPS to be started up without AC power supplied. Although it's a small UPS, it's equipped with Smart RS-232 Communication Port to offer users more benefits. The download software helps users monitor UPS inside status. The main features of this UPS are listed below:

- Microprocessor control guarantees high reliability.
- Equipped with Boost and Buck AVR to stabilize the input voltage.
- DC Start Function.
- Built-in USB Communication Port.
- Free Software Download from the Internet. (Please check Free Software Download for detail information.
- Green Power Function for energy saving.
- Auto restart while AC recovery.
- Compact size, Light weight.
- Provides Modem and Phoneline Surge Protection
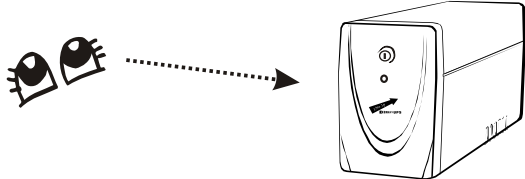- Provide AC Overload Protection.

Installation and Operation

Installing this UPS is as easy as following the steps shown. 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.
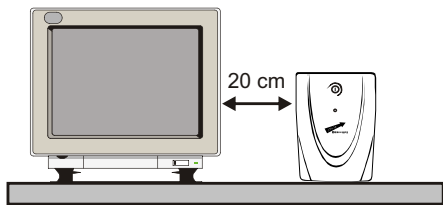
2 Placement

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.
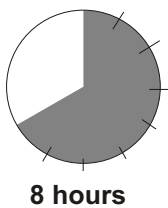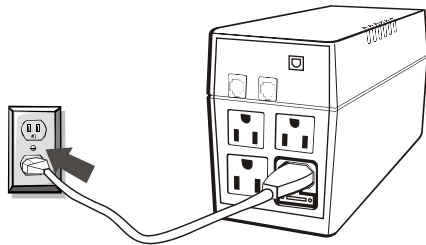
On the other hand, place the UPS unit away from the monitor at least 20cm to avoid interference.
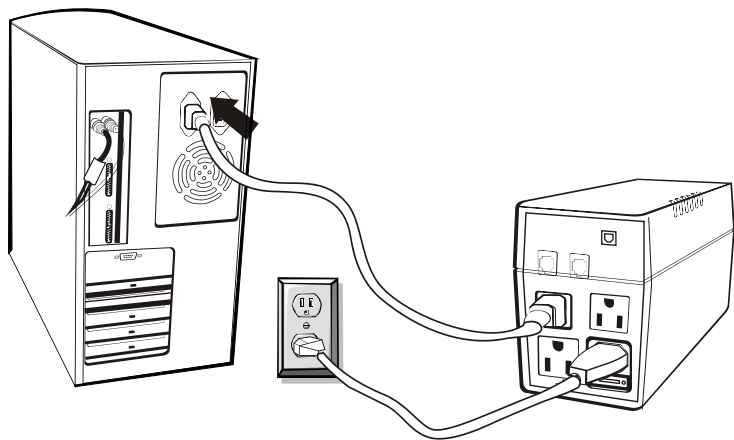
20 cm

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.
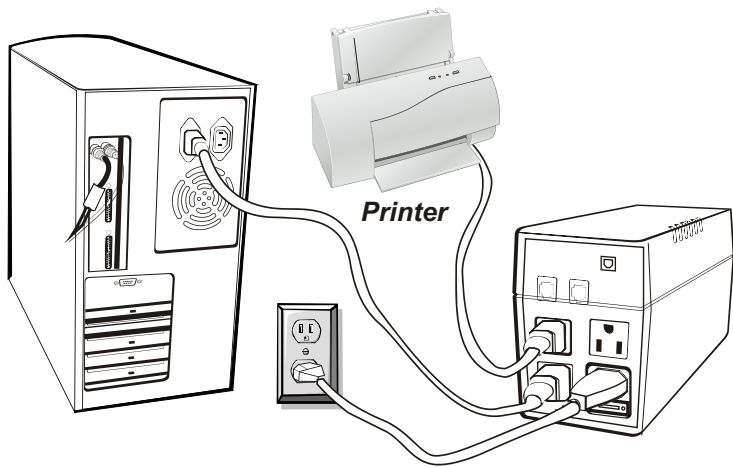
8 hours

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

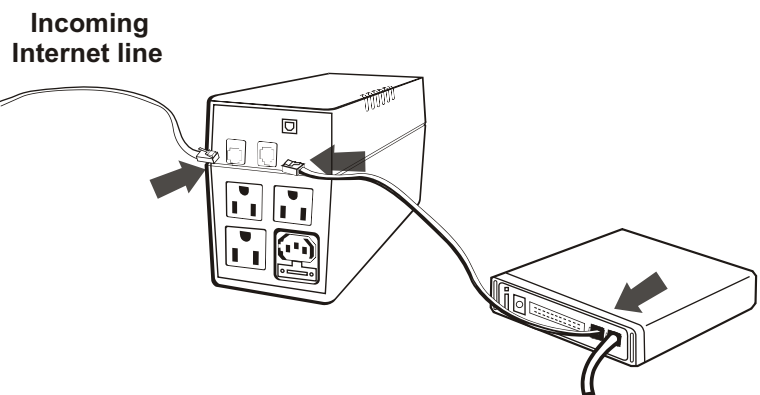Plug your peripheral equipment (printer, scanners, speakers) into the back of the UPS.

Printer

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.
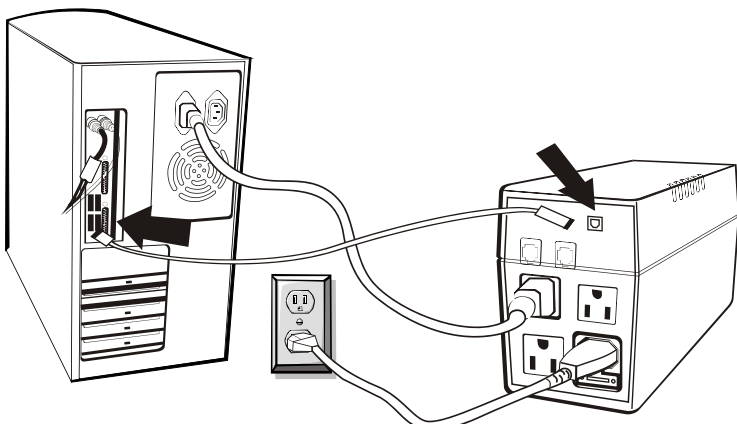
6 Modem/Phoneline Connection

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.

Incoming Internet line

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

This 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.
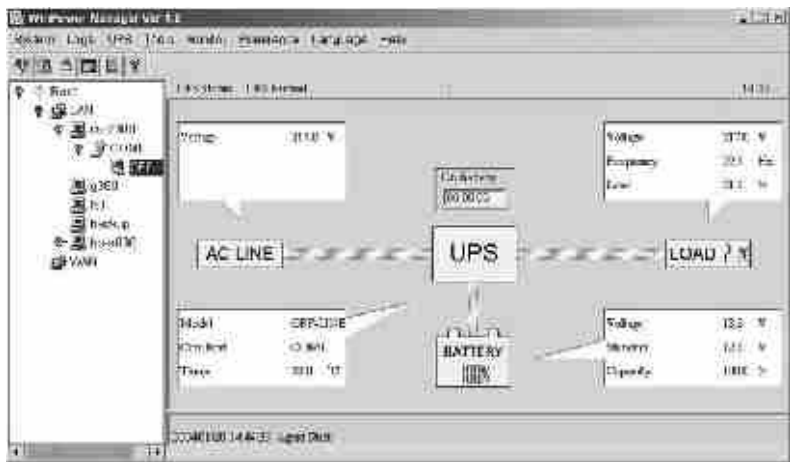
10 Green Power Function

This Series are equipped with Green Power Function. If no load connects to the UPS, it will automatically shut down in 5 minutes for energy saving while power failure. The UPS will restart while AC recovery.

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.