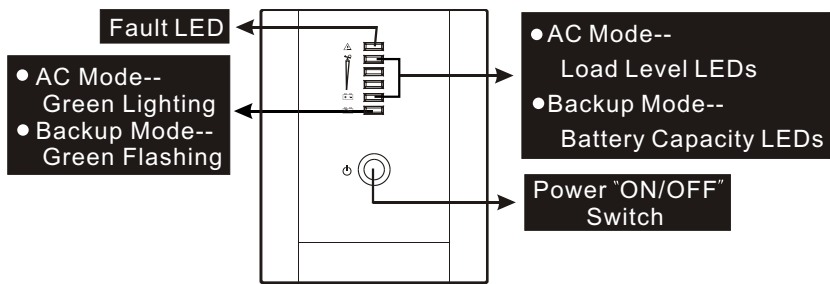


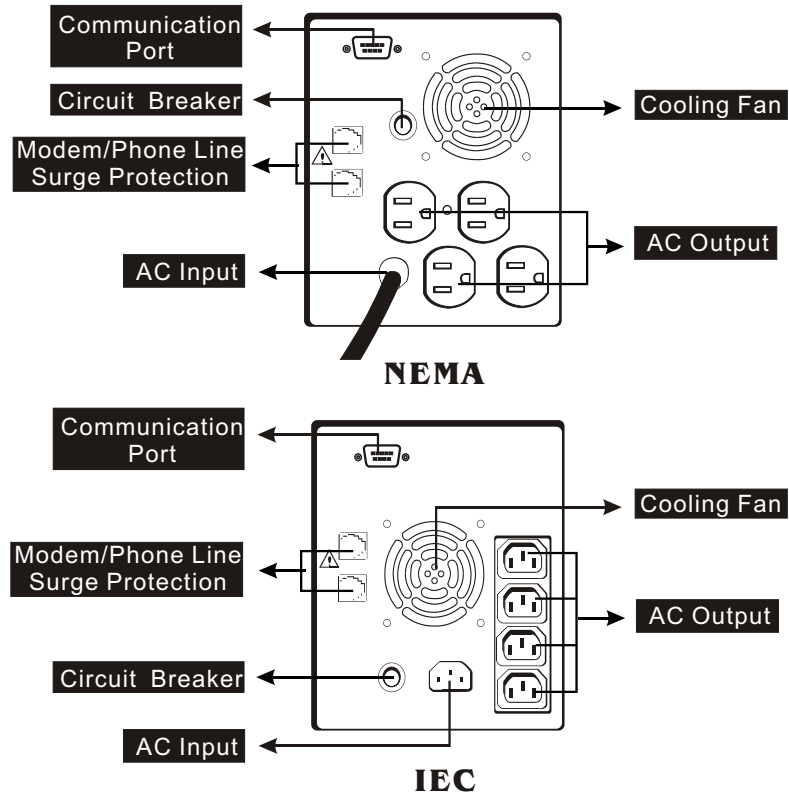


System Description

Front Panel--



Back Panel--



Specification

MODEL		Line Interactive 1000	Line Interactive 1400	Line Interactive 2000
CAPACITY	VA/W	1000VA/600W	1400VA/840W	2000VA/1080W
INPUT	Voltage	115VAC / 220, 230, 240VAC		
	Voltage Range	90-140VAC / 158-290VAC		
OUTPUT	Voltage	115VAC / 220, 230, 240VAC		
	Voltage Regulation (Batt. Mode)	+/- 10%		
	Frequency	50Hz or 60Hz		
	Frequency Regulation (Batt. Mode)	+/- 1Hz		
	Output Waveform	Modified Sinewave		
BATTERY	Battery Type & Number	12V/7Ah x 2pcs	12V/9Ah x 2pcs	
	Backup Time (at 2-PC load with 15" monitor)	23 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	Full Protection	Discharge, overcharge, and overload protection		
PHYSICAL	Dimension DxWxH	368.3mmx140.2mmx180.4mm		
	Net Weight	13.8kg	14.2kg	16kg
ENVIRONMENT	Operating Environment	0-40°C, 0-90% relative humidity (non-condensing)		
	Noise Level	Less than 40dB		
INTERFACE	Smart RS-232	Support windows 95/98/NT/2000/XP, Novell, and Linux		

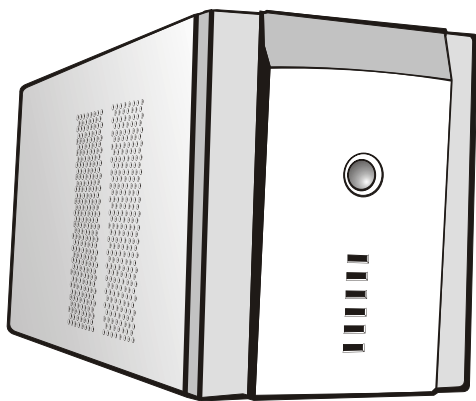


Trouble Shooting

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.

28-2BLA1K0018

Uninterruptible Power Supply



1st Edition, 2002

Line Interactive UPS

User Manual

- Wichtige Sicherheitshinweise**
- Bitte lesen Sie diese Hinweis sorgfältig durch.
 - Vor jedem reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssig- oder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
 - Das Gerät ist vor Feuchtigkeit zu schützen.
 - Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
 - Bei der Installation ist darauf zu achten, dass der Gesamtbleistrom der USV und der and der USV angeschlossenen Verbraucher den. Maximalwert von 3.5mA nicht überschreiten.
 - VORSICHT: Explosionsgefahr bei unsachgemäßem Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.
- Safety -- Caution!!**
- 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:
 - Remove watches, rings, or other metal objects from the hands.
 - Use tools with insulated handles.
 - Wear rubber gloves and boots.
 - Do not lay tools or metal parts on top of batteries.
 - Disconnect charging source prior to connecting or disconnecting batteries terminal.
 - Service 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 Line Interactive 1000, Line Interactive 1400, Line Interactive 2000 that should be followed during installation and maintenance of the UPS and batteries.
- Safety -- Caution!!**
- 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.
 - Unplug the UPS prior to cleaning and do not use liquid or spray detergent.



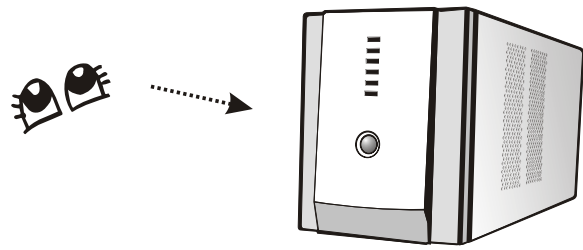
Installation and Operation

Installing the 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

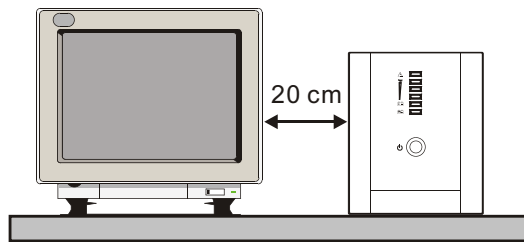
Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, re-pack the unit and return it to the place of purchase.



2

Placement

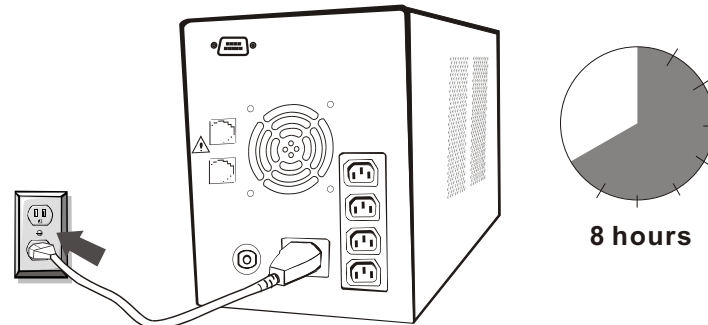
Install the UPS unit in any protected environment that provides adequate airflow around the unit, and is free from excessive dust, corrosive fumes and conductive contaminants. Do not operate your UPS in an environment where the ambient temperature or humidity is high. On the other hand, place the UPS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



3

Charging

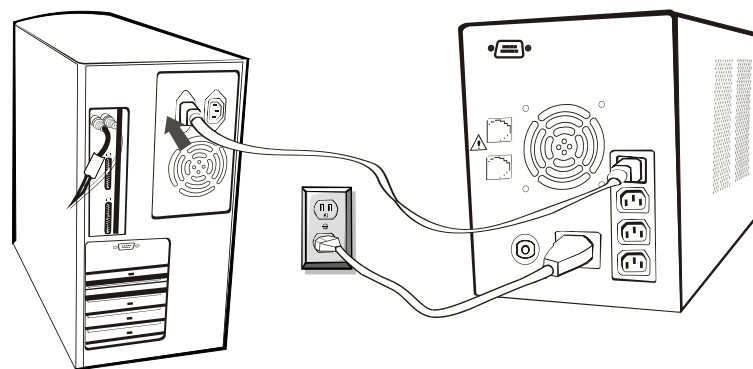
This unit is shipped from the factory with its internal battery fully charged, however, some charge may be lost during shipping and the battery should be recharged prior to use. Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 8 hours.



4

Computer Connection

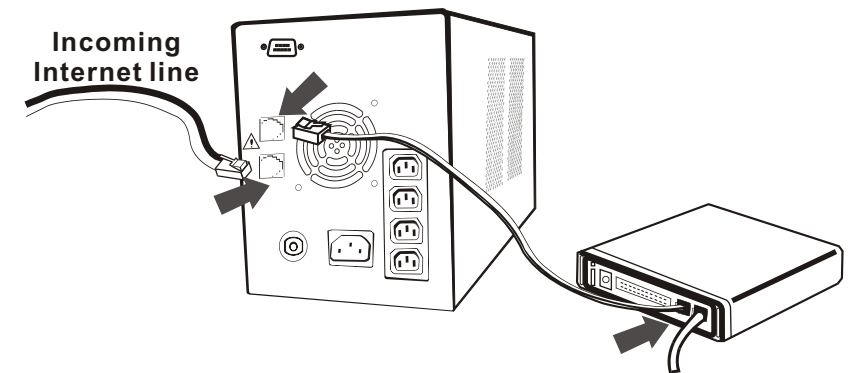
Connect one computer-related device into each of the power receptacles supplied on the back of the UPS.



5

Modem/Phoneline Connection

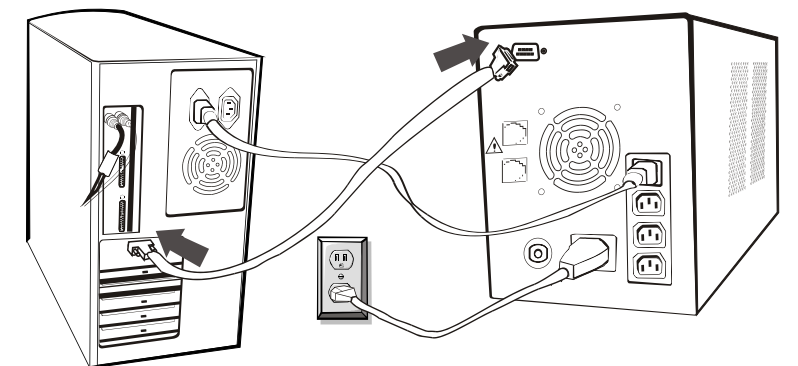
Plug incoming internet line into the "In" socket at the back of the UPS. Use on more Internet line cable and plug one end of the Internet line cable to the "Out" socket at the back of the UPS. Plug the other end of the modem input socket as shown below.



6

Serial cable Connection

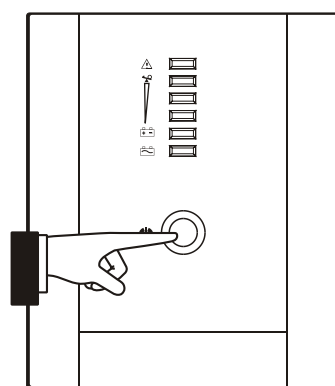
To allow for unattended system shutdown for your operating system, connect the serial cable as per diagram below.



7

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.



8

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.

9

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.

10

Battery Replacement

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

Remove the panel

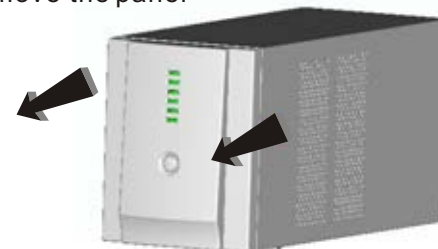


Chart 1

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.

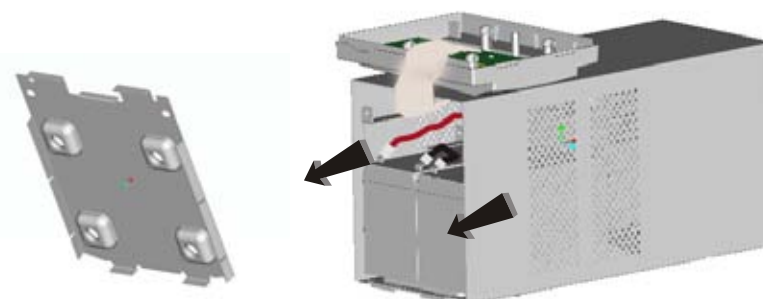


Chart 3



Free Software Download -- Commander Pro --

Commander Pro is a unique uninterruptible power supply (UPS) control software that offers you unprecedented convenience for the control of any UPS.

Features:

- Saves files before shutdown occurs
- Scheduled system shutdown
- Graphic display of UPS status
- Warning notification via E-mail
- User-friendly interface
- Multi-language versions



Download Commander Pro from the internet is a simple process:

1. Go to Website <http://www.ups-software-download.com>
2. Click Commander Pro Icon to enter software download area.
3. Choose operating system you need for your PC and double click to download software automatically.
4. Type in Serial No: 511C1-01220-0100-478DF2A to install the software.