User Manual

Line-interactive UPS Lion X 650/Lion X 850/Lion X 1200/Lion X 1500/Lion X 2200

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.

CAUTION! Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.

CAUTION! The battery supply should be therefore disconnected in the plus and minus pole at the quick connectors of the battery when maintenance or service work inside the UPS is necessary.

CAUTION! Internal battery voltage is 12Vdc. Sealed, lead-acid, 6-cell battery.

CAUTION! When replacing the batteries, use the same number and type of batteries.

CAUTION! Do not dispose of 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.

INSTALLING YOUR UPS SYSTEM

UNPACKING

The box should contain the following: (1) UPS Unit x1; (2) User Manual x 1; (3) USB Cable x 1; (4) CD Disk x 1;

OVERVIEW

The UPS provides automatic voltage regulation for inconsistent utility power, and provides battery backup during power outages, and ensures consistent power to your computer system.

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 (Zip drive, Jazz drive, Tape drive), etc. into the battery power supplied outlets. DO NOT plug a laser printer, copier, space heater, vacuum, paper

shredder or other large electrical device into the battery power supplied outlets. The power demands of these devices will overload and possibly damage the unit.

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 (e.g. air conditioner, refrigerator, copier, etc. Avoid using extension cords.

4. Press the power switch to turn the unit on. The power on indicator light will illuminate and the unit will "beep"

- 5. If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the UPS off and unplug at least one piece of equipment from the battery power supplied outlets. Wait 10 seconds. Make sure the circuit breaker / fuse is normal and then turns the UPS on.
- 6.To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.
- 7.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.

BASIC OPERATION

Front panel

1.Power Switch

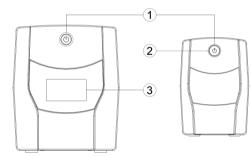
Press the switch for 2 seconds to turn the UPS ON or OFF. Mute setting: The audible alarm can be turned OFF or ON by quickly pressing the POWER button twice. The default setting is for the Alarm On.

2.Led Indicators

This LED is illuminated when the UPS is working.

3.LCD Display

The LCD will display the UPS status including input voltage, output voltage, percentage of load and battery...etc.



1200/1500/2200

650/850

Rear panel

1. USB COMM. Port

This port allows connection and communication from the USB port on the computer to the UPS unit.

2. RJ45/11 Communication Protection Ports

Communication protection ports will protect any standard modem, fax, telephone line, or network cable

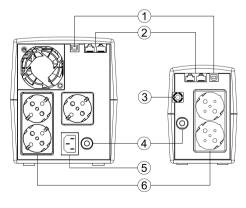
3. Input power cord Connect to utility power. 4. Input Circuit Breaker

The circuit breaker provides optimal overload protection.

5. Inlet Connect to utility power with power cord

6. Battery Backup Outlets

Provide battery backup protection. They ensure power is provided to connected equipment over a period of time during a power failure.



1200/1500/2200

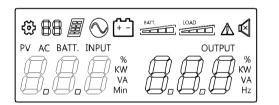
650/850

TECHNICAL SPECIFICATIONS

Model	Lion X 650	Lion X 850	Lion X 1200	Lion X 1500	Lion X 2200
Capacity(VA/W)	650/390	850/510	1200/720	1500/900	2200/1200
Input				-	
Voltage Range	162~290Vac				
Nominal Frequency	50/60Hz				
Output				-	
On Battery Output Voltage	Simulated Sine Wave at 220Vac +/-10%				
On Battery Output Frequency	50/60Hz +/-1%				
Overload Protection	Breaker / Fuse				
Physical					
Dimensions (W x H x D)(mm)	96 x 1	38 x 286		148 X 178 X 298	
Battery					
Sealed Maintenance Free Lead Acid Battery	12V 7AH x1	12V 9AH x1	12V 7AH x2	12V 9AH x2	12V 9AH x2
Typical Recharge Time			8 Hours		
Warning Diagnostics					
Indicators			Power On		
Audible Alarms	On Battery, Low Battery, Overload, Fault				
Environmental					
Operating Temperature	0°C to 40°C				
Operating Relative Humidity	0 to 90%				
Management					
Auto-Charger	Yes				
Auto-Restart	Yes				
USB COMM. Port	Optional				
RJ45/11 Communication Protection Ports	Optional				

DEFINITIONS FOR ILLUMINATED LCD INDICATORS

LCD Indication



I 88	Setting Item	\bigcirc	Line mode
	PV mode	+ -	Bat-mode
	Fault/Alarm	¥)	Sound disable
BATT.	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

LED Indication and Alarm

	LED Status (650/850VA)	LED Status (1200/1500/2000VA)	Alarm	
Normal	LED lighting	LED lighting	Off	
Battery Discharge	Flash once every 30 seconds	LED lighting	Beep once every 30 seconds	
Battery Low	Flash once every 2 seconds	LED lighting	Beep once every 2 seconds	
Overload	Flash once every 0.5 second	LED lighting	Beep once every 0.5 seconds	
Off charging mode	LED off	LED off	Off	
Fault	LED off	LED off	Continuous alarm	
TROUBLE SHOOTING				

Problem	Possible Cause	Solution	
The UPS does not perform expected	Batteries are not fully charged.	Recharge the battery by leaving the UPS plugged in.	
runtime	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 230Vac 50/60Hz outlet.	
	The battery is worn out.	Contact Technical Support.	
	Mechanical problem.	Contact Technical Support.	
Outlets do not	Circuit breaker is tripped due to overload	Turn the UPS off and unplug at least one piece connected equipment. Unplug the power cord of the UPS then press the circuit breaker knob.	
provide power to equipment	Batteries are discharged	Allow the unit to recharge for at least 4 hours.	
	Unit has been damaged by a surge or spike	Contact Technical Support.	
Fault code F09	Output Short : Output circuit short.	Shut down the UPS Your attached equipment may have problems, please remove them and check again.	
Fault code F12	Battery voltage is too low.	Shutdown your computer and recharge the battery immediate	
Fault code F13	Battery is overcharged.	Contact Technical Support.	
Fault code F14 Overload occurs: 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.	

SOFTWARE DOWNLOAD

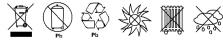
Power Master management software provides a user-friendly interface for your power systems. The graphic user interface is intuitive and displays essential power information at a glance. Please follow procedure below to install the software.
Installation procedure:

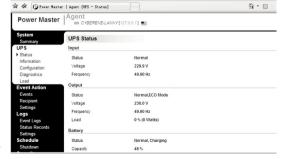
1. Download Power Master from the website:

http://www.powermonitor.software/

2. Double-click the file and follow the installation steps.

When your computer restarts, the Power Master software will appear as a blue icon located in the system tray.





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