



Line Interactive **X5E Series**

600VA | 1200VA | 2200VA UPS





User Manual Line Interactive UPS:

600VA | 1200VA | 2200VA

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 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!** 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

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.

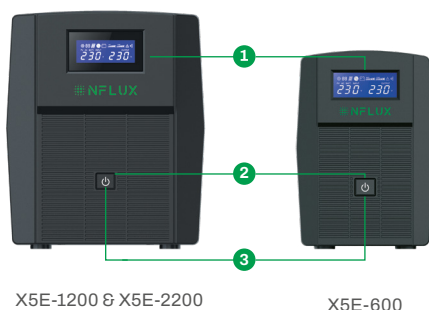


3. Plug the UPS into a 2 pole, 3 wire grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. air conditioner, refrigerator, copier, etc. Avoid using extension cords.
4. Press the 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

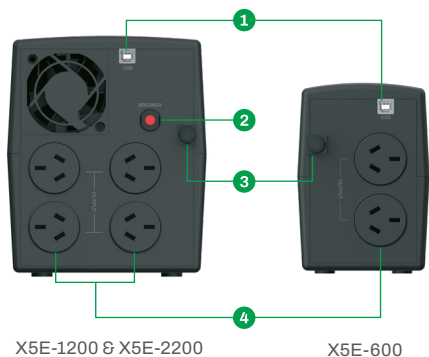
Front panel

1. **LCD Display**
The LCD will display the UPS status including input voltage, output voltage, percentage of load and battery Detc.
Sound disable: The audible alarm can be turned OFF or ON by quickly pressing the power switch twice. The default setting is for the Alarm On.
2. **Power Switch**
Press the switch for 2 seconds to turn the UPS ON or OFF.
3. **Led Indicators**
This LED is illuminated when the UPS is working.



Rear panel

1. **USB COMM. Port**
This port allows connection and communication from the USB port on the computer to the UPS unit.
2. **Input Circuit Breaker**
The circuit breaker provides optimal overload protection.
3. **Input power cord**
Connect to utility power.
4. **Battery Backup & Surge Protected Outlets**
Provide battery backup and surge protection. They ensure power is provided to connected equipment over a period of time during a power failure.





LED INDICATION AND ALARM

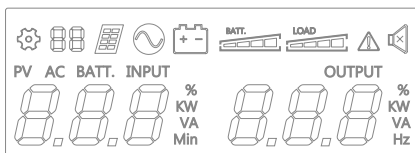
	LED Status	Alarm
Normal	LED lighting	Off
Battery Discharge	LED lighting	Beep once every 30 seconds
Battery Low	LED lighting	Beep once every 2 seconds
Overload	LED lighting	Beep once every 0.5 seconds
Off charging mode	LED off	Off
Fault	LED off	Continuous alarm

TECHNICAL SPECIFICATIONS

Model	X5E-600	X5E-1200	X5E-2200
Capacity	600VA/360W	1200VA/720W	2200VA/1320W
Input			
Voltage Range	162~290Vac		
Nominal Frequency	50/60Hz		
Output			
On Battery Output Voltage	Simulated Sine Wave 230Vac z+/-10%		
On Battery Output Frequency	50/60 Hz+/-1%		
Overload Protection	Breaker/Fuse		
Physical			
Dimensions (W x H x D)(mm)	96 x 138 x 286	148 x 178 x 298	148 x 178 x 298
Battery			
Sealed Maintenance Free Lead Acid Battery Cartridge	NBC-1	NBC-2	
Typical Recharge Time	8 Hours		
Warning Diagnostics			
Indicators	Power On/ Using Battery		
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 RJ45/11 Communication	Included		



DEFINITIONS FOR ILLUMINATED LCD INDICATORS



LCD Indication

	Bat-mode		Line mode
	Sound disable		Fault/Alarm
	Bat mode: battery capacity Line mode: 1. Battery charging: cycle lighting 2. Battery full charge: lighting 3. Line mode without charger: battery capacity		Load capacity

Line mode & Batt. Mode

Initial	AC INPUT (Voltage) V		OUTPUT (Voltage) V	

TROUBLESHOOTING

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 does not perform expected runtime.	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 provide power to equipment	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.
	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.



Problem	Possible Cause	Solution
Power Master is inactive	The serial/USB cable is not connected.	Connect the serial/USB cable to the UPS unit and an open serial port on the back of the computer. You must use the cable that came with the unit.
	The unit is not providing battery power.	Shutdown your computer and turn the UPS off. Wait 10 seconds and turn the UPS back on. This should reset the unit.
Fault code F09/E09	Output Short: Output circuit short.	Shutdown the UPS. Your attached equipment may have problems, please remove them and check again.
Fault code F12/E12	Battery voltage is too low.	Shutdown your computer and recharge the battery immediately.
Fault code F13/E13	Battery is overcharged.	Contact Technical Support.
Fault code F14/E14	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

Elevate your power system management with the **NFLUX Management Software**, a sophisticated tool offering a seamless and user-friendly interface for unparalleled control. Our Graphic User Interface (GUI) is designed with intuition in mind, presenting essential power information at a glance.

Navigate effortlessly through a wealth of power data, allowing you to monitor, analyze, and optimize your systems with ease. The intuitive design of the GUI ensures a user-friendly experience, making power management accessible to all levels of expertise.

For detailed instructions on installation, features, and functionalities, visit our official website at www.nflux.com.au

There, you can download the software along with comprehensive manuals to empower you with the knowledge to harness the full potential of your power systems. Unleash the capabilities of **NFLUX Management Software** and take command of your power infrastructure like never before.



AS62040



