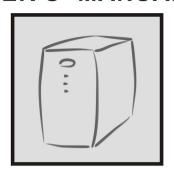
USER'S MANUAL













This manual provides safety, installation and operation instructions which will guide you to the best performance of your equipment.

Please keep this manual!

It includes important instructions for the safe usage of the equipment and to obtain manufacturer's support in case of need.

Please keep or recycle the packaging materials!

Packaging materials used in our products are designed to provide protection from transportation.

These materials are necessary in case that the equipment needs to be shipped back for service. Damage that may occur during the shipment is



INTRODUCTION

1-1 System Description

The product is line interactive UPS with LCD indicators, newest technology and powerful function.

The Line Interactive UPS is designed with 2-Steps Boost and 1-Step Buck AVR to stabilize input voltage. Input voltage range is -30% +25%, but output regulation is +/-10%.

The Line Interactive UPS provides you with the ability of perfect protection for your critical devices.

INTRODUCTION

1-2 Features:

- Line Interactive design
- Microprocessor control guarantees high reliability
- Frequency 50/60Hz auto-sensing
- Equipped with 2-Steps Boost & 1-Step Buck AVR to stabilize utility voltage
- Built-in DC start function enable UPS to be started up without AC power supplied
- UPS Green Mode (Energy Saving Function)
- Off-mode Charging
- Modem/Phone line surge protection
- Over/Low Voltage, Short-Circuit, and Lightning /Surge(Optional) Protection
- Built-in CCCV (Constant Current, Constant Voltage) battery Charger

CAUTION

- > The UPS contains voltage that is potentially hazardous. Qualified or certified technician should proceed all repairs and maintenance.
- > The UPS has its own internal energy source (battery). The output receptacles may be active even when the UPS is not connected to an AC supply.
- > The UPS is suitable for computers and electronic equipment with substantial rectifier or capacitive loads, not suitable for electronic equipment with significant inductive loads, such as motors & fluorescent lamps.
- Be sure to operate within the power rating of the UPS. Below 1/2 or 1/3 of the rated power is recommended for longer backup time & longer battery life.
- Do not place the UPS near excessive humidity, under sunshine, or close to heatemitting sources.
- > If the UPS is out of order, detach the power cord and consult your dealer right away. Do not remove cover: there is no serviceable part inside.
- The unit should be supplied by a grounded source. Do not operate the unit without a around source.
- > The socket should be installed near the equipment and be easily Accessible.

2 CAUTION

- Do not plug the UPS's power cord into itself. That will result in a safety hazard.
- A qualified technician or electrician in accordance with local electrical code should perform installation.



INSTALLATION

The UPS must be installed in a protected environment away from heat-emitting appliances such as a radiator or heater. Do not install this product where excessive moisture is present.

CAUTION: Never connect a laser printer or plotter

to the UPS. A laser printer or plotter periodically

draws significantly more power than its idle status.



and may overload the UPS.

OVERVIEW

■ Front Panel

1.LCD screen.

2.Control button.





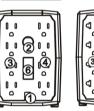




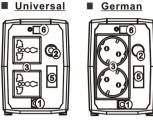
■ UK







■ German



■ Indian

OVERVIEW

■ IEC-320

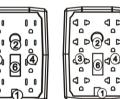
■ Italian





■ Australian

■ Nema5-15R ■ Universal Nema



OPERATION

5.1

When UPS is connected to city utility, but UPS is not powered on, UPS will charge battery automatically and LCD display will show "UPS off". Please press main switch on front panel for 1 second to turn on UPS.

5.2

To turn off UPS when UPS is under AC mode. please press main switch on front panel for 4

To turn off UPS when UPS is under battery mode, please press main switch and then UPS will shut down completely in 10 seconds.

This UPS is designed with "Off-mode charging", so UPSwill charge battery continuously when UPS is under AC normal. If users intend to power off UPS completely, users have to remove input power cord from city utility.

■ Rear Panel

- 1.AC Input: Connect to input power cord
- 2.AC Fuse/ Circuit Breaker

(

- 3.Back-up/AVR Outlets
- 4. Surge Protection Outlets
- 5.RJ-45 port(Optional)
- 6.Communication interface:

USB port (Optional)

5.3 DC Start:

Press on main switch for 4 seconds when city utility is black out, UPS will be turned on and then go to back up mode. To turn off UPS, please press main switch for 4 seconds again. If users want to turn on UPS again, please wait for 10 seconds to press main switch for 4 seconds again.

5.4

When UPS is under battery mode and battery voltage is too high or low, buzzer will beep.

5.5

Buzzer will beep twice every 8 seconds when city utility is black out. To silence alarm, please simply press main switch. To re-start alarm, please press main switch again.



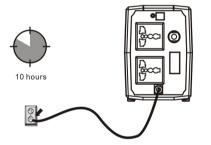
STORAGE

To ensure battery lifetime, please kindly read and also follow below instruction completely.

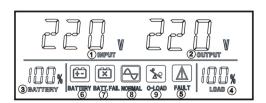
This unit is shipped from the factory with its internal battery fully charged, however, some charge maybe lost during shipping and the battery should be recharged prior to use. Plug the unit into an appropriate power supply and allow the UPS to charge fully by leaving it plugged in for at least 10 hours.

Extended Storage

Storage Temperature	Recharge Frequency	Charging Duration
5 to 86°F(-15 to 30°C)	Every 6 Months	10 Hours
86 to 113F(30 to 45C)	Every Month	10 Hours







No	Indicador	Descripción
1	Input Voltage	Indicate input Line voltage value. Input voltage will blink continuously in back up mode
2	Output Voltage	Indicate output voltage value

No	Indicador	Descripción
3	Battery capacity	Estimated battery capacity, the accuracy is influenced by UPS operation mode and load level.
4	Load capacity	The load level. Percentage of full load
5	Fault	Icon is lighted: UPS is in fault condition and alarm will beep continuously
6	Battery	Icon is lighted: UPS is on back up mode when AC power is abnormal.
7	Battery Fail	Icon is lighted: UPS battery is abnormal, please check or replacement battery.
8	Normal	Icon is lighted: UPS is under normal status.
9	Overload	Icon is lighted: UPS is overloaded, buzzer will beep continuously. Please remove some loads.

8

TROUBLESHOOTING

Upon UPS failure, please kindly check UPS by following below steps. If there is no problem with below points, please kindly send UPS for service

- Is main power switch turned on?
- Is the UPS plugged into a working wall outlet?
- Is the line voltage within the rating specified?
- Is the fuse blowned (at rear panel)?
- Is the UPS over-loaded?
- Is battery not fully charged?

Please provide the following information when call for service.

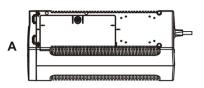
- 1. Model number, serial number.
- 2. Date of the problem occurred, date of purchase.
- Full description of the problem including load, LCD, and alarm status, installation condition, working environment, etc.

TROUBLESHOOTING CHART				
PROBLEM	POSSIBLE CAUSE	ACTION TO TAKE		
UPS cannot turn on LCD not light	Battery voltage less than 10V	Recharge the Battery		
202 not ngitt	PCB failure	Replace the PCB, call for service		
	Load less than 25w at battery mode	Normal condition,"No load shutdown function" is active		
UPS always at	Power cord lose	Plug in the power cord		
battery mode	AC fuse burn out	Replace the AC fuse		
	PCB failure	Replace the PCB, call for service		
Backup time too	Battery not fully charged	Recharge the UPS at least 5 hours		
	Battery defective	Replace the Battery, call for service		
Buzzer continuous beeping	Overload	Remove some loads		



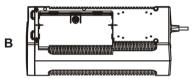
INSTRUCTION TO CHANGE BATTERY

1. Please place UPS device as below picture.



2. On the cover of battery compartment, there is a round button.

Please press the round button and then push cover out till arrows on cover are aligned with arrows on UPS housing. After arrows on cover are aligned with arrows on UPS housing, the cover can be dismantled from UPS housing easily.

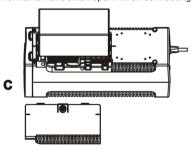


 After cover is dismantled, please pull out battery and then disconnect wires from battery positive and negative terminals.

Get a new battery and then connect wires to positive and negative terminals of new battery.

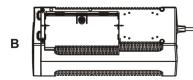
Please make sure to connect wires to positive and negative terminals correctly, otherwise UPS device might be damaged.

It is normal to have small spark when connecting wires.



 Please take cover of battery compartment and then align arrows on cover with arrows on UPS housing. After arrows are all aligned, push cover in and then double check if cover is well-locked.

Cover has to be well-locked, otherwise battery might fall out under operation and cause danger.



10 SPECIFICATIONS

Capacity	600VA-800VA	
Input		
Voltage	110/115/120VAC or 220/230/240VA	
Voltage Range	-30% +25%	
Frequency	50/60Hz Auto-sensing	
Output		
Voltage Regulation	+/-10%	
(Batt.Mode)	+7-1078	
Frequency	50/60Hz +/-1Hz	
Waveform	Simulated Sinewave	
Transfer Time	<6ms (Typical)	
Battery		
Battery Type	12VDC	
Recharge Time	5 Hrs to 90% after complete	
	discharge	
Battery Protection	Over Discharge Protection	
	-	
Advanced Battery	Yes	
Management	165	
Function		
Disales	LCD District (Multi-Data)	
Display	LCD Display (Multi-Data)	
	Buzzer on for Back-up mode,	
Alarm	battery low, overload	
Output Short	AC fuse and Electronic circuit	
Protection	(Line mode);Electronic circuit	
	(Back-up mode)	
AVR (Automatic	You	
Voltage Regulation	Yes	
DC Start Function	Yes	
Over/Under		
Voltage Protection	Yes	
Safety Standard		
LVD	CE(EN60950-1:2006+A11:2009	
	+A1:2010+A12:2011)	
EMC	CE (EN55022:2010;	
	EN55024:2010)	
Environment		
Operating	0-40°C	
Temperature	0-40 C	
Relative Humidity	0-95%, non-condensing	
Audible Noise	< 40dB at 1M	
Physical		
Dimension	0.45 5*4.00*4.44	
(D*W*H)	315.5*100*141mm	
Design, Manufacture, Service ISO 9001:2008		
701-0	071338 UPS-7X00CH-NLCD-600-800-01	