

User Manual

Line-interactive UPS

CLAIRE II 1000/1500/2000

IMPORTANT SAFETY INFORMATION

(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 the UPS.

Insure the wall outlet and UPS are located near the equipment being attached for proper accessibility.

To reduce risk of damage and injury, please use batteries with good quality.

Provide adequate ventilation for the battery compartment. The battery enclosure should be designed to prevent accumulation and concentration of hydrogen gas at the top of the compartment.

DO NOT expose the UPS to rain, snow or liquids of any type. The UPS is designed for indoor use only.

DO NOT obstruct the ventilation openings.

DO NOT connect neutral of the power distribution box on the wall to the output neutral of UPS.

Otherwise the reversed polarity will damage the UPS and the connected equipment.

CAUTION! Risk of electric shock, do not remove cover. No user serviceable parts inside.

The battery can energize hazardous live parts inside even when the AC input power is disconnected.

To avoid electrical shock, turn off the UPS and unplug it from the AC power source before servicing the battery. Servicing the battery can only be performed by trained personnel.

INSTALLING YOUR UPS SYSTEM

UNPACKING

Inspect the UPS upon receipt. The box should contain the following:

(1)UPS Unit x1; (2) User Manual x1; (3) USB Cable x1; (4) Power Cord x1

OVERVIEW

The UPS provides battery backup during power outages. The series ensures consistent power to your computer system and its included software will automatically save your open files and shut down your computer system during a utility power loss.

HARDWARE INSTALLATION GUIDE

Before installation, please read and understand the following instructions:

1.Placement

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

2.Ventilation

The location should provide adequate air flow around the UPS with 10 CM minimum clearance on all sides for proper ventilation.

3.Connect the Battery(only for Long backup models)

Connect the external battery with the DC cables from the back of the UPS. Follow battery polarity guide located near battery cables as below.

Red cable for battery positive polarity;
Black cable for battery negative polarity.

4.Connect to AC and Charge the Battery

Connect the UPS to a wall outlet. Avoid using extension cords and adapter plugs. Charging the battery for at least 8 hours is recommended to insure that the battery is fully charged. To recharge the battery, simply leave the unit plugged into a wall outlet. To maintain optimal battery charge, leave the UPS plugged into an AC outlet at all times.

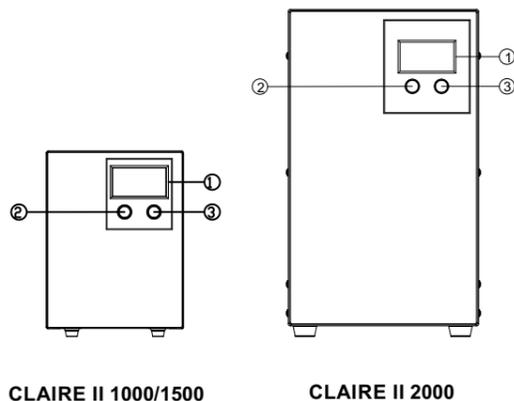
This UPS can be charged even when UPS is not turned on.

5.Connect the Load

Connect the equipment to the UPS outlet. Please make sure that the total loads of your equipments are less than the maximum total power load of the UPS. Connect your computer, monitor, and any externally-powered data storage device (Hard drive, Tape drive, etc.) into the outlets only when the UPS is off and unplugged. Do not plug a laser printer, copier, space heater, vacuum, paper shredder or other large electrical device into The UPS. The power demands of these devices will overload and possibly damage the unit.

BASIC OPERATION

FRONT PANEL DESCRIPTION



1.LCD Display

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

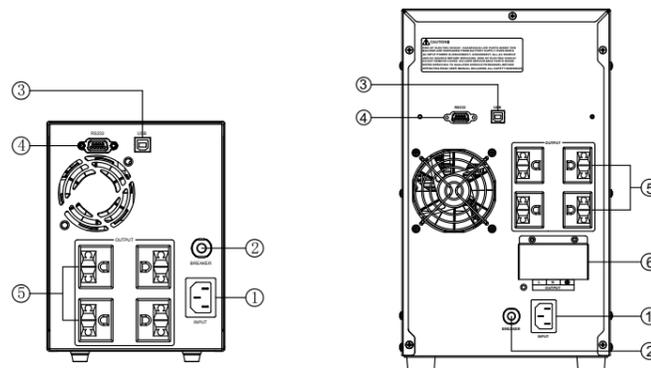
2.Power On/Off Button

Press the power Button to turn the UPS ON or OFF.

3.Setting Button

The audible alarm can be turned off/on by pressing this button

REAR PANEL DESCRIPTION



CLAIRE II 1000/1500

CLAIRE II 2000

1.AC Inlet

Connect to utility power through the input power cord.

2.Input Circuit Breaker

The circuit breaker provides optional overload protection.

3.USB Port to PC

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

4.Serial Port to PC

This port allows connection and communicates from the DB-9 serial on the computer to the UPS unit.

5.AC Outlet

The UPS provides outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.

6.Output Terminal Block

Connect to your equipment. The UPS provides outlets for connected equipment to insure temporary uninterrupted operation during a power failure and against surges and spikes.

FUNCTIONAL TEST

AC Mode

The UPS delivers power to the load derived from the utility and maintains proper battery charge.

On-Battery Mode

The UPS operates on battery when the utility voltage has fallen outside the limits. Local users are alerted to this mode of operation by visual and audible indicators. The UPS provides power to the load from the battery and the output voltage of the UPS are regulated within a narrow range

1.Button On

Press the power Button 2 seconds then the status LCD will light up.

2.Button Off

Press the power Button 2 seconds again, the status LCD will go off.

3.Cold Start / Start on Battery

This UPS can be turned on even when AC is not present.

Press the power Button 2 seconds then the status LCD will light up.

ROUTINE MAINTENANCE AND STORAGE

ROUTINE MAINTENANCE

1.Use dry soft clothes to clean the panel and plastic parts. Do not use any detergent that contains alcoholic ingredient.

2.Unplug the UPS from power inlet if the UPS will not operate for long period of time.

STORAGE

1.First turn off your UPS and disconnect its power cord from the wall outlet. Disconnect all cables connected the UPS to avoid battery drain.

2.The UPS should be stored in a cool dry location.

3.Make sure the battery is fully charged before the UPS is stored.

4.For extended storage in moderate climates, the battery should be charged for 12 hours every 3 months by plugging the power cord into the wall receptacle and turning on the main Button. Repeat it every 2 months in high temperature locations.

TROUBLE SHOOTING

Problem	Possible Causes	Remedy
Abnormal		
Mains normal but not works in AC mode	1.AC Input missing	1.Check AC input connection.
	2. Input Breaker is tripped	2.Unplug the power cord of the UPS then press the circuit breaker knob.
Alarm buzzer beeps 10 seconds	Overload	Verify that the load matches the capability specified in the specs.
The UPS will not turn on.	The on/off Button 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 UPS will not turn on	The unit is not connected to an AC outlet.	The unit must be connected to a 220-240V 50/60Hz outlet.
	The battery is worn out. 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.
Alarm		
Alarm code A06	Battery low: Battery capacity is low, UPS will turn off soon	Shut off non-essential equipment. Save your data and turn off computer.
Alarm code A14	Over load occurs.	Shut off non-essential equipment.
Fault		
Fault code F09	Output Short : Output circuit short.	1. Shut down the UPS 2. Your attached equipment may have problems, please remove them and check again.
Fault code F11	Battery high: Battery voltage is too high.	1. Shut down the UPS 2. Check the counts of Battery
Fault code F12	Battery Low : Battery voltage is too low.	1. Shut down the UPS 2. Check the counts of Battery 3. Check battery connector when use battery packages.
Fault code F19	Over Temperature : High ambient temperature	1. Shut down the UPS. Restart the UPS to Check the fan for operation and if the ventilation hole has been covered 2. Contact Technical Support.
Fault code F14	Overload in line Mode: 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.
Fault code F18	Fan fail : Fan has been damaged.	1. Shut down the UPS 2. Replace the fan
Other		
Software is inactive	The serial is not connected.	Connect the serial 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.

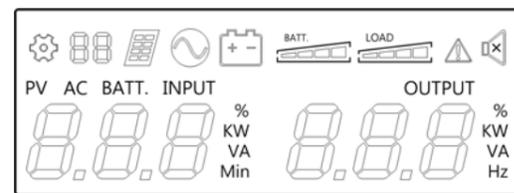
If any abnormal situations occur that are not listed above, please contact service personnel.

TECHNICAL SPECIFICATIONS

Model	CLAIRE II 1000	CLAIRE II 1500	CLAIRE II 2000
Capacity (VA)	1000	1500	2000
Capacity(Watts)	700	1050	1400
Input			
Input Voltage Range	165 -285Vac		
Frequency Range	40-70 Hz		
Output			
Output Voltage	220Vac +/-10%		
Output Frequency	50Hz(default) /60Hz		
Overload Protection	On Utility: breaker On Battery: Internal Current Limiting		
Physical			
Total UPS outlets	(4) AS		(4) AS +(1) Terminal Block
Maximum Dimensions (WxHxD) (mm)	140 x 190.6 x 327		196 x 342x 412
Weight (kg) (without BAT)	6.94	7.98	15.1
Battery			
Voltage	24Vdc		48Vdc
Charger Current	1A		
Communication			
Software	Windows 10, Windows 8, Windows 7, Windows Server 2012 R2, Windows Server 2008 R2, Linux, Mac		
Warning Diagnostics			
Indicators	AC Mode, Power On, Battery mode, Fault		
Audible Alarms	Low Battery, Overload, Fault		
Environmental			
Operating Temperature	+32°F to 104°F (0°C to 40°C)		
Operating Relative Humidity	0 to 90% NON-CONDENSING		
Management			
Auto-Charger	Yes		
Auto-Restart	Yes		

DEFINITIONS FOR ILLUMINATED LCD INDICATOR

LCD Indication



	Bat-mode		Line mode
	Fault		Sound disable (Press the display key 3s to disable and enable the buzzer sound)
	Bat mode: Battery Capacity Line mode: 1. Battery charging, cycle lighting 2. Battery full charged lighting		Load capacity

Line mode & Bat mode

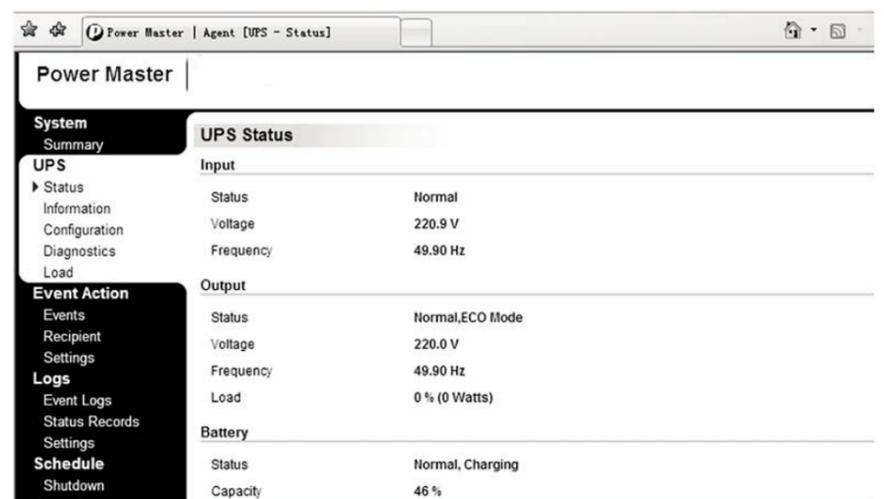
Initial	AC INPUT(Voltage) V	220 V	OUTPUT (Voltage) V	220 V

ALARM DEFINITIONS

Alarm	Condition
Off	Normal
Beep 1 time In Every 30 Seconds	Utility Failure - The UPS is providing battery power to outlets.
Beep 1 time In Every 2 Seconds	Utility Failure - The UPS is providing battery power. The rapid beeps indicate the battery will run out of power shortly.
Beep 1 time In Every 0.5 Second	Overload - Occurs when connected equipment exceeds the rating of the unit. Turn the UPS off and unplug at least one piece of equipment from the UPS.

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:

Download Power Master from the website: <http://www.powermonitor.software/>

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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