



Liebert® GXT-MT+ CX User Manual - 1-3kVA

Installer/User Guide



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1. Important Safety Warning

Please comply with all warnings and operating instructions in this manual strictly. Save this manual properly and read carefully the following instructions before installing the unit. Do not operate this unit before reading through all safety information and operating instructions carefully

1-1. Transportation

- Please transport the UPS system only in the original package to protect against shock and impact.

1-2. Preparation

- Condensation may occur if the UPS system is moved directly from cold to warm environment. The UPS system must be absolutely dry before being installed. Please allow at least two hours for the UPS system to acclimate the environment.
- Do not install the UPS system near water or in moist environments.
- Do not install the UPS system where it would be exposed to direct sunlight or near heater.
- Do not block ventilation holes in the UPS housing.

1-3. Installation

- Do not connect appliances or devices which would overload the UPS system (e.g. laser printers) to the UPS output sockets.
- Place cables in such a way that no one can step on or trip over them.
- Do not connect domestic appliances such as hair dryers to UPS output sockets.
- The UPS can be operated by any individuals with no previous experience.
- Connect the UPS system only to an earthed shockproof outlet which must be easily accessible and close to the UPS system.
- Please use only VDE-tested, CE-marked mains cable (e.g. the mains cable of your computer) to connect the UPS system to the building wiring outlet (shockproof outlet).
- Please use only VDE-tested, CE-marked power cables to connect the loads to the UPS system.
- When installing the equipment, it should ensure that the sum of the leakage current of the UPS and the connected devices does not exceed 3.5mA.

1-4. Operation

- Do not disconnect the mains cable on the UPS system or the building wiring outlet (shockproof socket outlet) during operations since this would cancel the protective earthing of the UPS system and of all connected loads.
- The UPS system features its own, internal current source (batteries). The UPS output sockets or output terminals block may be electrically live even if the UPS system is not connected to the building wiring outlet.
- In order to fully disconnect the UPS system, first press the OFF/Enter button to disconnect the mains.

- Prevent no fluids or other foreign objects from inside of the UPS system.

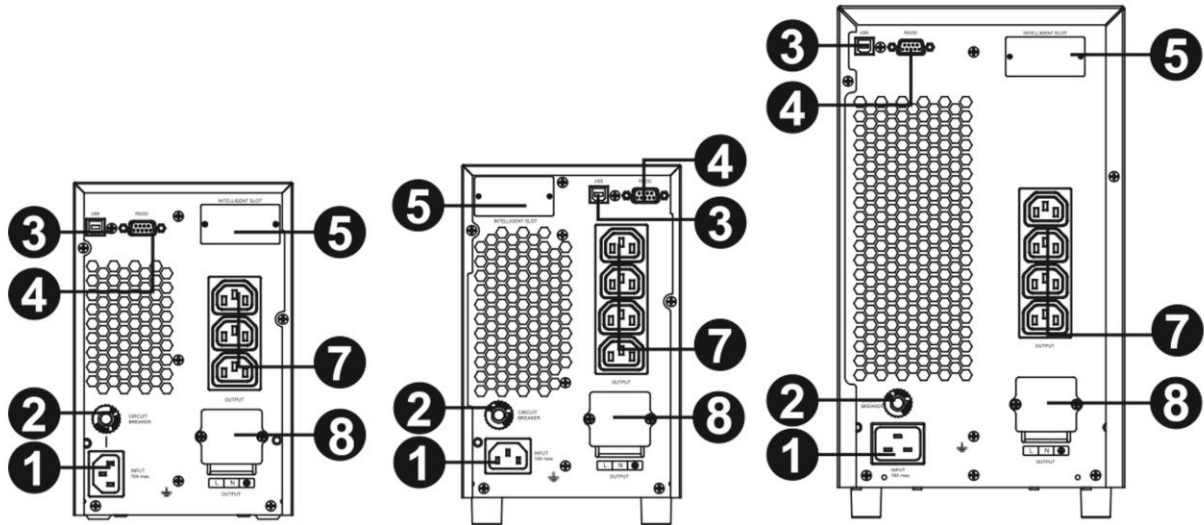
1-5. Maintenance, service and faults

- The UPS system operates with hazardous voltages. Repairs may be carried out only by qualified maintenance personnel.
- **Caution** - risk of electric shock. Even after the unit is disconnected from the mains (building wiring outlet), components inside the UPS system are still connected to the battery and electrically live and dangerous.
- Before carrying out any kind of service and/or maintenance, disconnect the batteries and verify that no current is present and no hazardous voltage exists in the terminals of high capability capacitor such as BUS-capacitors.
- Only persons are adequately familiar with batteries and with the required precautionary measures may replace batteries and supervise operations. Unauthorized persons must be kept well away from the batteries.
- **Caution** - risk of electric shock. The battery circuit is not isolated from the input voltage. Hazardous voltages may occur between the battery terminals and the ground. Before touching, please verify that no voltage is present!
- Batteries may cause electric shock and have a high short-circuit current. Please take the precautionary measures specified below and any other measures necessary when working with batteries:
 - remove wristwatches, rings and other metal objects
 - use only tools with insulated grips and handles.
- When changing batteries, install the same number and same type of batteries.
- Do not attempt to dispose of batteries by burning them. This could cause battery explosion.
- Do not open or destroy batteries. Escaping electrolyte can cause injury to the skin and eyes. It may be toxic.
- Please replace the fuse only with the same type and amperage in order to avoid fire hazards.
- Do not dismantle the UPS system.

2. Installation and setup

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use.

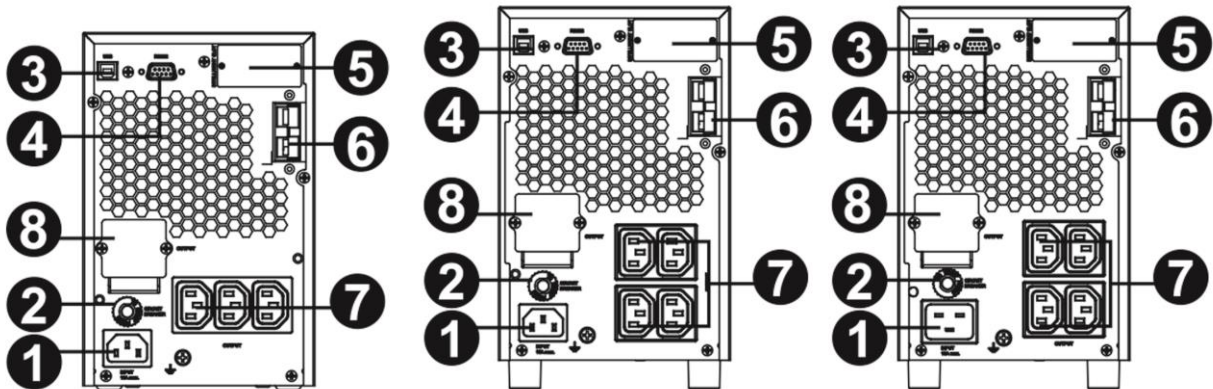
2-1. Rear panel view



GXT MT+ CX 1K SB

GXT MT+ CX 2K SB

GXT MT+ CX 3K SB



GXT MT+ CX 1K LB

GXT MT+ CX 2K LB

GXT MT+ CX 3K LB

1. AC input
2. Input circuit breaker
3. USB communication port
4. RS-232 communication port
5. SNMP intelligent slot (option)
6. External battery connection (only available for L model)
7. Output receptacles
8. Output terminal

2-2. Setup the UPS

Step 1: UPS input connection

Plug the UPS into a two-pole, three-wire, grounded receptacle only. Avoid using extension cords. The power cord is supplied in the UPS package.

Step 2: UPS output connection

- For socket-type outputs, simply connect devices to the outlets.
- For terminal-type input or outputs, please follow below steps for the wiring configuration:
 - a) Remove the small cover of the terminal block
 - b) Suggest using AWG14 or 2.1mm² power cords.
 - c) Upon completion of the wiring configuration, please check whether the wires are securely affixed.
 - d) Put the small cover back to the rear panel.

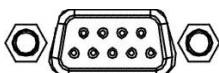
Step 3: Communication connection

Communication port:

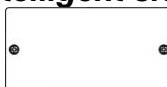
USB port



RS-232 port



Intelligent slot



To allow for unattended UPS shutdown/start-up and status monitoring, connect the communication cable one end to the USB/RS-232 port and the other to the communication port of your PC. With the monitoring software installed, you can schedule UPS shutdown/start-up and monitor UPS status through PC.

The UPS is equipped with intelligent slot perfect for either SNMP or AS400 card. When installing either SNMP or AS400 card in the UPS, it will provide advanced communication and monitoring options.

PS. USB port and RS-232 port can't work at the same time.

Step 4: Turn on the UPS

Press the ON/Mute button on the front panel for two seconds to power on the UPS.

Note: The battery charges fully during the first five hours of normal operation. Do not expect full battery run capability during this initial charge period.

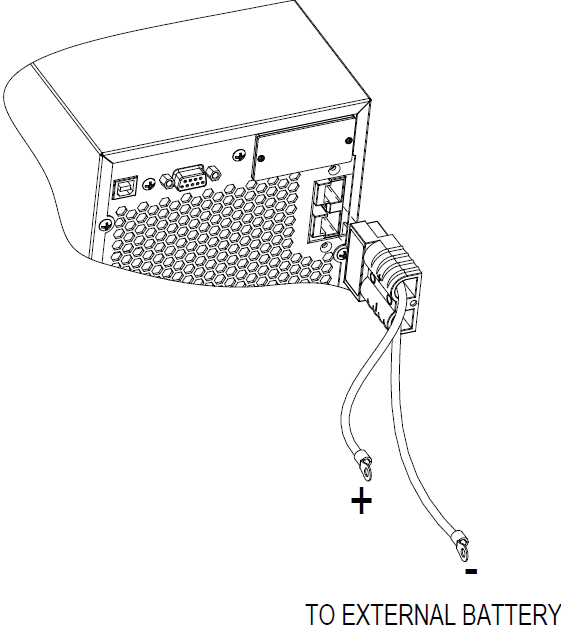
Step 5: Install software

For optimal computer system protection, install UPS monitoring software to fully configure UPS shutdown. You may insert provided CD into CD-ROM to install the monitoring software. If not, please follow steps below to download and install monitoring software from the internet:

1. Go to the website <http://www.power-software-download.com>
2. Click ViewPower software icon and then choose your required OS to download the software.
3. Follow the on-screen instructions to install the software.
4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

Step 6: External battery connection

Follow the right chart to make external battery connection.

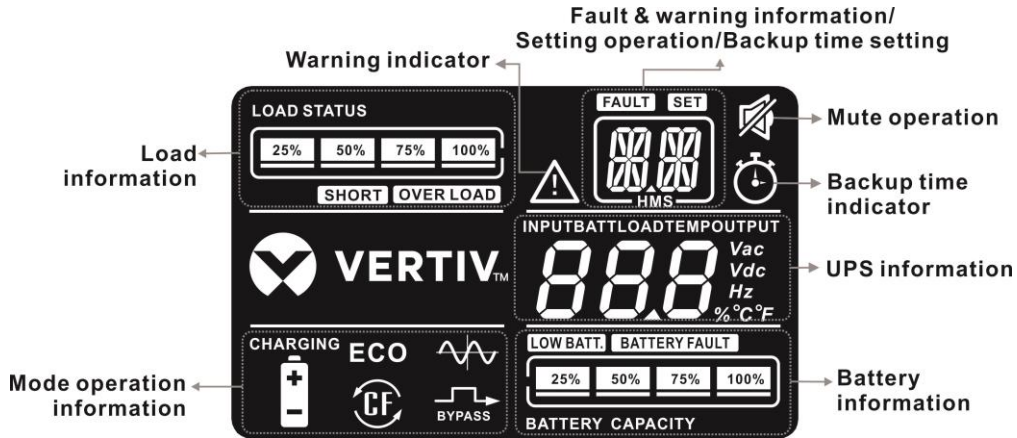


3. Operations





3-1. Button operation

Button	Function
ON/Mute Button	<ul style="list-style-type: none">➤ Turn on the UPS: Press and hold ON/Mute button for at least 2 seconds to turn on the UPS.➤ Mute the alarm: When the UPS is on battery mode, press and hold this button for at least 5 seconds to disable or enable the alarm system. But it will be automatically enable when next warnings or errors occur.➤ Up key: Press this button to display previous selection in UPS setting mode.➤ Switch to UPS self-test mode: Press and hold ON/Mute button for 5 seconds to enter UPS self-testing while in AC mode, ECO mode, or converter mode.
OFF/Enter Button	<ul style="list-style-type: none">➤ Turn off the UPS: Press and hold this button at least 2 seconds to turn off the UPS. UPS will be in standby mode under power normal or transfer to Bypass mode if the Bypass enable setting by pressing this button.➤ Confirm selection key: Press this button to confirm selection in UPS setting mode.
Select Button	<ul style="list-style-type: none">➤ Switch LCD message: Press this button to change the LCD message for input voltage, input frequency, battery voltage, output voltage and output frequency.➤ Setting mode: Press and hold this button for 5 seconds to enter UPS setting mode when UPS is in standby mode or bypass mode.➤ Down key: Press this button to display next selection in UPS setting mode.
ON/Mute + Select Button	<ul style="list-style-type: none">➤ Switch to bypass mode: When the main power is normal, press ON/Mute and Select buttons simultaneously for 5 seconds. Then UPS will enter to bypass mode. This action will be ineffective when the input voltage is out of acceptable range.

3-2. LCD Panel





Display	Function
Remaining backup time setting and information	
	Indicates the remaining backup time in pie chart.
	Indicates the remaining backup time in numbers. H: hours, M: minute, S: second
Setting operation	
	Indicates the setting operation.
Fault & warning information	
	Indicates that the warning situation occurs.
	Indicates the warning and fault codes, and the codes are listed in details in 3-5 section.
Mute operation	
	Indicates that the UPS alarm is disabled.
UPS information	
	Indicates the input and output voltage, frequency, battery voltage, load information, and internal temperature. Vac: input/output voltage, Vdc: battery voltage, Hz: frequency, %: load level, °C/°F: temperature,
Load information	
	Indicates the load level by 0-25%, 26-50%, 51-75%, and 76-100%.
	Indicates overload.
	Indicates the load or the UPS output is short circuit.
Mode operation information	
	Indicates the UPS is in online mode.
	Indicates the UPS is in battery mode.

 BYPASS	Indicates the UPS is bypass mode.
ECO	Indicates the UPS is in ECO mode.
 CHARGING	Indicates the UPS is in converter mode.
	Indicates the UPS is charging battery.
Battery information	
 BATTERY CAPACITY	Indicates the Battery capacity by 0-25%, 26-50%, 51-75%, and 76-100%.
BATTERY FAULT	Indicates the battery is fault.
LOW BATT.	Indicates low battery level and low battery voltage.

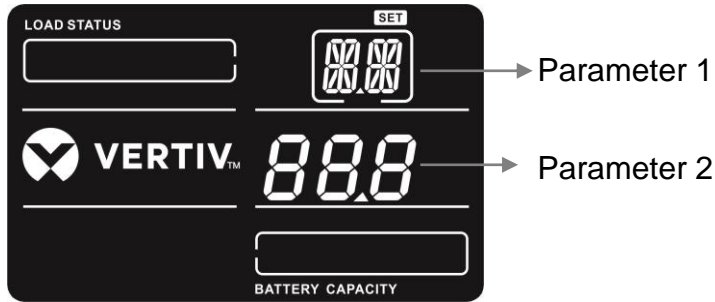
3-3. Audible Alarm

Battery Mode	Sounding every 4 seconds
Low Battery	Sounding every second
Overload	Sounding twice every second
Fault	Continuously sounding
Bypass Mode	Sounding every 10 seconds

3-4. LCD display wordings index

LCD Area	Abbreviation	Display content	Meaning
	ENA	<i>ENR</i>	Enable
	DIS	<i>di S</i>	Disable
	ESC	<i>ESC</i>	Escape
	b.L	<i>bL</i>	Low battery
	O.L	<i>OL</i>	Overload
	N.C	<i>NC</i>	Battery is not connected
	O.C	<i>OC</i>	Overcharge
	C.H	<i>CH</i>	Charger
	b.F	<i>bF</i>	Battery fault
	b.V	<i>bV</i>	Bypass voltage range
	W.T	<i>WT</i>	Waiting
	F.U	<i>FU</i>	Bypass frequency unstable
E.E	<i>EE</i>	EEPROM error	

3-5. UPS Setting



There are two parameters to set up the UPS.

Parameter 1: It's for program alternatives. Refer to below table.

Parameter 2 is the setting option or value for each program.

● 01: Output voltage setting

Interface	Setting
	<p>Parameter 2: Output voltage setting You may choose the following output voltage in parameter 2:</p> <ul style="list-style-type: none"> 200: presents output voltage is 200Vac 208: presents output voltage is 208Vac 220: presents output voltage is 220Vac 230: presents output voltage is 230Vac (Default) 240: presents output voltage is 240Vac


● 02: Frequency Converter enable/disable

Interface	Setting
	<p>Parameter 2: Enable or disable converter mode. You may choose the following two options:</p> <ul style="list-style-type: none"> CF ENA: converter mode enable CF DIS: converter mode disable (Default)

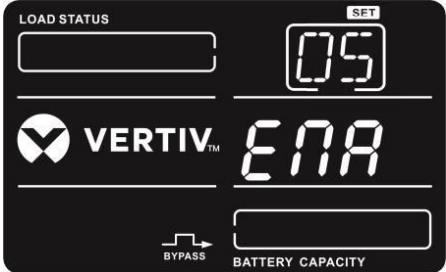
● 03: Output frequency setting

Interface	Setting
	<p>Parameter 2: Output frequency setting. You may set the initial frequency on battery mode:</p> <ul style="list-style-type: none"> BAT 50: presents output frequency is 50Hz (Default) BAT 60: presents output frequency is 60Hz <p>If converter mode is enabled, you may choose the following output frequency:</p> <ul style="list-style-type: none"> CF 50: presents output frequency is 50Hz (Default) CF 60: presents output frequency is 60Hz

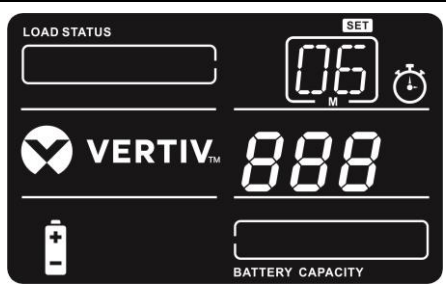
● **04: ECO enable/disable**

Interface	Setting
	<p>Parameter 2: Enable or disable ECO function. You may choose the following two options: ENA: ECO mode enable DIS: ECO mode disable (Default)</p>

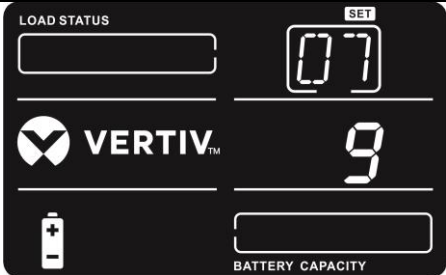
● **05: Bypass enable/disable when UPS is off**

Interface	Setting
	<p>Parameter 2: Enable or disable Bypass function. You may choose the following two options: ENA: Bypass enable DIS: Bypass disable (Default)</p>


● **06: Autonomy limitation setting**

Interface	Setting
	<p>Parameter 2: Set up backup time on battery mode for general outlets. 0-999: setting the backup time in minutes from 0-999 in battery mode. 0: When setting as “0”, the backup time will be only 10 seconds. 999: When setting as “999”, the backup time setting will be disabled.</p>

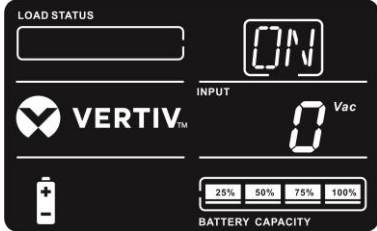
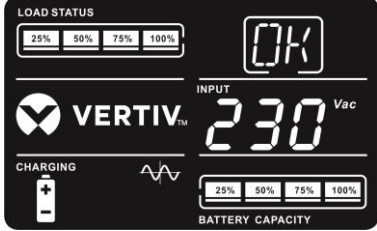


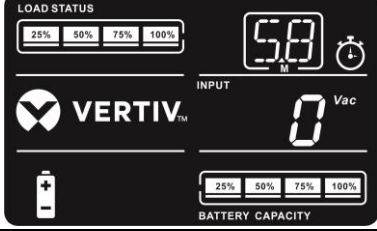


● **07: Battery total AH setting**

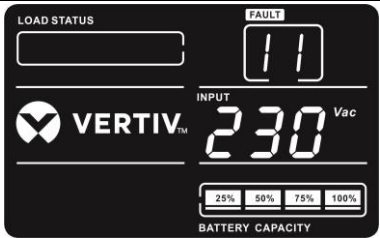
Interface	Setting
	<p>Set up the battery total AH of the UPS. (unit: AH) 7-999: setting the battery total capacity from 7-999 in AH. Please set the correct battery total capacity if external battery bank is connected. If the unit is standard model, the AH is fixed to 9AH. If the unit is long-run model, the default setting is 65AH.</p>

● **00: Exit setting**

Interface	Setting
	<p>ESC: Exit the setting menu.</p>

3-6. Operating Mode Description














Operating mode	Description	LCD display
Switch on	When pressing “ON/MUTE” button, if battery voltage is within acceptable range, “ON” will flash until the UPS is turned on.	
Online mode	When the input voltage is within acceptable range, UPS will provide pure and stable AC power to output. The UPS will also charge the battery at online mode.	
ECO mode	Energy saving mode: When the input voltage is within voltage regulation range, UPS will bypass voltage to output for energy saving.	
Frequency Converter mode	When input frequency is within 40 Hz to 70 Hz, the UPS can be set at a constant output frequency, 50 Hz or 60 Hz. The UPS will still charge battery under this mode.	
Battery mode	When the input voltage is beyond the acceptable range or power failure and alarm is sounding every 4 second, UPS will backup power from battery.	
Bypass mode	When input voltage is within acceptable range but UPS is overload, UPS will enter bypass mode or bypass mode can be set by front panel. Alarm is sounding every 10 second.	
Standby mode	UPS is powered off without output power, but the battery still can be charged.	

Fault mode	The UPS is in fault mode when no output power is supplied from the UPS and the fault icon flashes on the LCD display, although the information of UPS can be displayed in the screen.	
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3-7. Faults Reference Code









Fault event	Fault code	Icon	Fault event	Fault code	Icon
Bus start fail	01	x	Inverter voltage Low	13	X
Bus over	02	x	Inverter output short	14	SHORT
Bus under	03	x	Battery voltage too high	27	BATTERY FAULT
Bus unbalance	04	x	Battery voltage too low	28	BATTERY FAULT
Bus short	05	x	Over temperature	41	X
Inverter soft start fail	11	x	Over load	43	OVER LOAD
Inverter voltage high	12	x	Charger failure	45	X

3-8. Warning indicator

Warning	Indicator		Alarm
	Word	Icon (flashing)	
Low battery	b.L	 LOW BATT.	Sounding every second
Overload	O.L	 OVER LOAD	Sounding twice every second
Battery is not connected	N.C	 	Sounding every second
Overcharge	O.C	 	Sounding every second
Waiting	W.T		Sounding every second
Charger failure	C.H		Sounding every second
Out of bypass voltage range	b.V	  BYPASS	Sounding every second
Battery fault	b.F	 BATTERY FAULT	Sounding every second
Bypass frequency unstable	F.U		Sounding every second
EEPROM error	E.E		Sounding every second

4. Troubleshooting

If the UPS system does not operate correctly, please solve the problem by using the table below.

Symptom	Possible cause	Remedy
No indication and alarm even though the mains is normal.	The AC input power is not connected well.	Check if input power cord firmly connected to the mains.
	The AC input is connected to the UPS output.	Plug AC input power cord to AC input correctly.
The icon  and  flashing on LCD display and alarm is sounding every second.	The external or internal battery is incorrectly connected.	Check if all batteries are connected well.
Fault code is shown as 27 and the icon  is lighting on LCD display and alarm is continuously sounding.	Battery voltage is too high or the charger is fault.	Contact your dealer.
Fault code is shown as 28 and the icon  is lighting on LCD display and alarm is continuously sounding.	Battery voltage is too low or the charger is fault.	Contact your dealer.
The icon  and  is flashing on LCD display and alarm is sounding twice every second.	UPS is overload	Remove excess loads from UPS output.
	UPS is overloaded. Devices connected to the UPS are fed directly by the electrical network via the Bypass.	Remove excess loads from UPS output.
	After repetitive overloads, the UPS is locked in the Bypass mode. Connected devices are fed directly by the mains.	Remove excess loads from UPS output first. Then shut down the UPS and restart it.
Fault code is shown as 43 and The icon  is lighting on LCD display and alarm is continuously sounding.	The UPS shut down automatically because of overload at the UPS output.	Remove excess loads from UPS output and restart it.
Fault code is shown as 14 and the icon  is lighting on LCD display. Alarm is continuously sounding.	The UPS shut down automatically because short circuit occurs on the UPS output.	Check output wiring and if connected devices are in short circuit status.
Fault code is shown as 1, 2, 3, 4, 5, 11, 12, 13, 41 and 45 on LCD display and alarm is continuously sounding.	A UPS internal fault has occurred. There are two possible results: 1. The load is still supplied, but directly from AC power via bypass. 2. The load is no longer supplied by power.	Contact your dealer

Symptom	Possible cause	Remedy
Battery backup time is shorter than nominal value	Batteries are not fully charged	Charge the batteries for at least 5 hours and then check capacity. If the problem still persists, consult your dealer.
	Batteries defect	Contact your dealer to replace the battery.
Fault code is show as 05 on LCD display. At the same time, alarm is continuously sounding and output is cut off.	A UPS internal has occurred and BUS is short circuit	Consult your dealer. If the UPS power is on again before repair, the DC/DC mosfet will damage.

5. Storage and Maintenance

Operation

The UPS system contains no user-serviceable parts. If the battery service life (3~5 years at 25°C ambient temperature) has been exceeded, the batteries must be replaced. In this case, please contact your dealer.



Be sure to deliver the spent battery to a recycling facility or ship it to your dealer in the replacement battery packing material.

Storage

Before storing, charge the UPS 5 hours. Store the UPS covered and upright in a cool, dry location. During storage, recharge the battery in accordance with the following table:

Storage Temperature	Recharge Frequency	Charging Duration
-25°C - 40°C	Every 3 months	1-2 hours
40°C - 45°C	Every 2 months	1-2 hours

6. Specifications

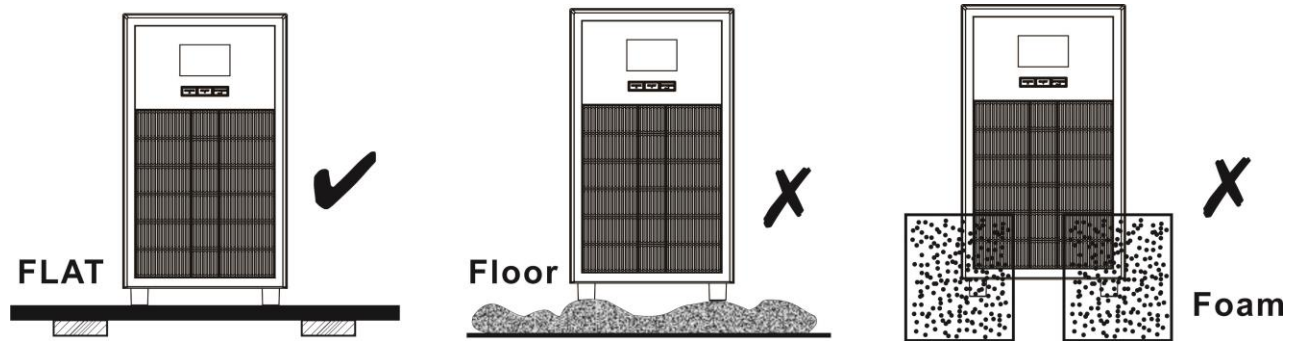
CAPACITY*		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT				
Voltage Range	Low Line Transfer	160VAC/140VAC/120VAC/110VAC±5% (Ambient Temp.<35°C) (based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)		
	Low Line Comeback	175VAC/155VAC/135VAC/125VAC ± 5 % (Ambient Temp.<35°C) (based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)		
	High Line Transfer	280 VAC ± 5 %		
	High Line Comeback	270 VAC ± 5 %		
Frequency Range		40Hz ~ 70 Hz		
Phase		Single phase with ground		
Power Factor		≥ 0.99 @ nominal voltage (input voltage)		
OUTPUT				
Output voltage		200/208/220/230/240VAC		
AC Voltage Regulation		± 1% (Batt. Mode)		
Frequency Range		47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)		
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		
Overload		Ambient Temp.<35°C 105%~110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal 110%~130%: UPS shuts down after 1minute at battery mode or transfer to bypass when the utility is normal >130%:UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		88%	89%	90%
Battery Mode		83%	87%	88%
BATTERY				
Standard Model	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH
	Numbers	2	4	6
	Recharge Time	4 hours recover to 90% capacity (Typical)		
	Charging Current	1.0 A (max.)		
Long-run Model*	Charging Voltage	27.4 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
	Battery Numbers	3	6	6
	Charging Current	1.0A/2.0A/4.0A/6.0 A		
	Charging Voltage	41.0VDC ± 1%	82.1VDC ±1%	82.1 VDC ±1%
PHYSICAL				
Standard Model	Dimension, D X W X H	282 X 145 X 220 (mm)	397 X 145 X 220 (mm)	421 X 190 X 318 (mm)
	Net Weight (kgs)	9.8	17	27.6
Long-run Model*	Dimension, D X W X H	282 x 145 x 220 (mm)	397x 145 x 220(mm)	
	Net Weight (kgs)	4.1	6.8	7.4
ENVIRONMENT				
Operation Humidity		0-95 % RH @ 0- 50°C (non-condensing)		
Noise Level		Less than 45dBA @ 1 Meter		
MANAGEMENT				
Smart RS-232 or USB		Supports Windows® 2000/2003/XP/Vista/2008/7, Linux, Unix and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

* Derate capacity to 80% of capacity in Frequency converter mode or when the output voltage is adjusted to 200VAC/208VAC or when the ambient temperature from 40°C to 50°C.

**Product specifications are subject to change without further notice.

Appendix: UPS Installation Guide

- UPS should be placed on the flat and clean surface. Place it in an area away from vibration, dust, humidity, high temperature, flammable liquids, gases, corrosive and conductive contaminants. Install the UPS indoors in a clean environment, where it is away from window and door. Maintain minimum clearance of 100mm in the bottom of the UPS to avoid dust and high temperature.

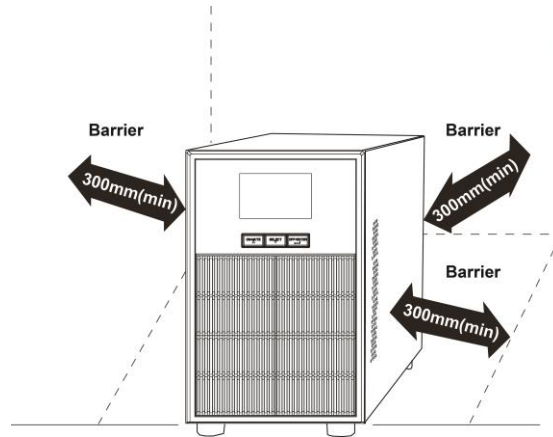


- Maintain an ambient temperature range of 0°C to 45°C for UPS optimal operation. For every 5°C above 45°C, the UPS will derate 12% of nominal capacity at full load. The highest working temperature requirement for UPS operation is 50°C.
- It's required to maintain maximum altitude of 1000m to keep UPS normal operation at full load UPS. If it's used in high altitude area, please reduce connected load. Altitude derating power with connected loads for UPS normal operation is listed as below:

Altitude m	Derating factor ¹⁾
1 000	1.0
1 500	0.95
2 000	0.91
2 500	0.86
3 000	0.82
3 500	0.78
4 000	0.74
4 500	0.7
5 000	0.67
NOTE - Note to table 1	
Based on density of dry air = 1.225 kg/m ³ at sea-level, +15 °C.	
¹⁾ Since fans lose efficiency with altitude, forced air-cooled equipment will have a smaller derating	

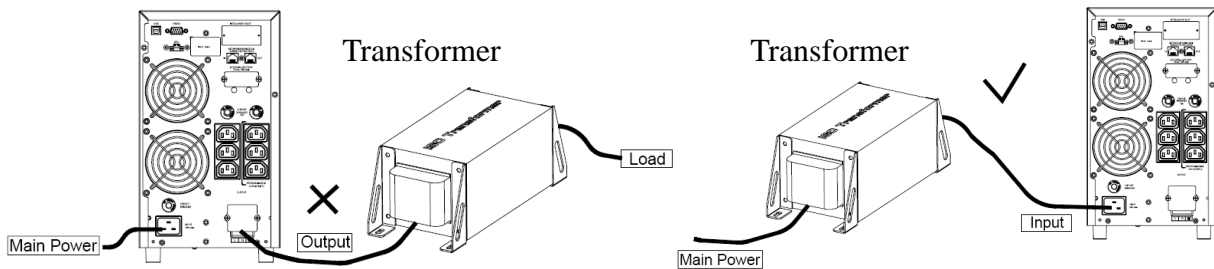
- Use supplied RS-232 or USB communication cable to connect RS-232/USB port of UPS and RS-232/USB port of PC. After installing ViewPower in PC, it can remote monitor UPS.

5. Place UPS:



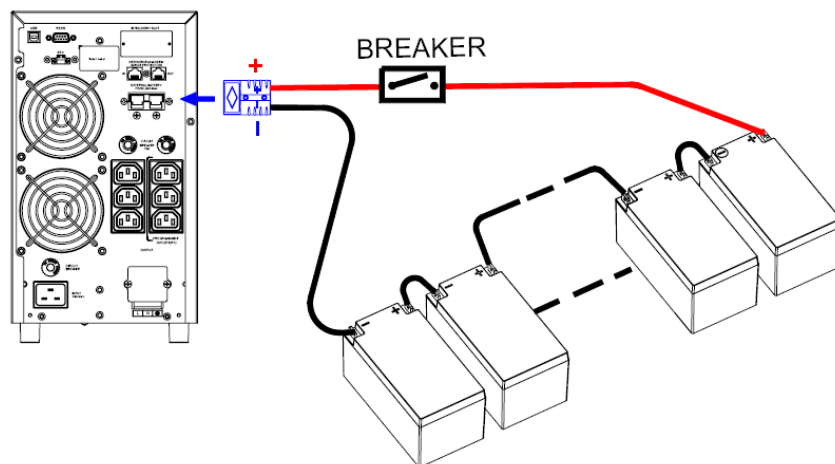
It's equipped with fan for cooling. Therefore, place the UPS in a well-ventilated area. It's required to maintain minimum clearance of 100mm in the front of the UPS and 300mm in the back and two sides of the UPS for heat dissipation and easy-maintenance.

6. Connect To Transformer



Please do NOT connect transformer to output of the UPS. Otherwise, it will cause UPS internal fault and force UPS to enter to fault mode. Please connect transformer to input of the UPS.

7. Connect to External Battery Pack



When connecting external battery packs, please be sure to connect polarity correctly. Connect positive pole of battery pack to positive pole of external battery connector in UPS and negative pole of battery pack to negative pole of external battery connector in UPS. Polarity misconnection will cause UPS internal fault. It's recommended to add one breaker between positive pole of battery pack and positive pole of external battery connector in UPS to prevent damage to battery packs from internal fault.

**The required specification of breaker: voltage $\geq 1.25 \times$ battery voltage/set; current $\geq 50A$
Please choose battery size and connected numbers according to backup time requirement and UPS specifications.**

To extend battery lifecycle, it's recommended to use them in the temperature range of 15 °C to 25 °C.



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