



# PowerWalker VFI 1000 CRM LCD Uninterruptible Power Supply System User Manual

[Home](#) » [PowerWalker](#) » PowerWalker VFI 1000 CRM LCD Uninterruptible Power Supply System User Manual 

## Contents

- [1 PowerWalker VFI 1000 CRM LCD Uninterruptible Power Supply System](#)
- [2 Important Safety Warning](#)
- [3 Installation and setup](#)
- [4 Operations](#)
- [5 Troubleshooting](#)
- [6 Storage and Maintenance](#)
- [7 Specifications](#)
- [8 Documents / Resources](#)
  - [8.1 References](#)
- [9 Related Posts](#)



## PowerWalker VFI 1000 CRM LCD Uninterruptible Power Supply System



## 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

## **Transportation**

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

## **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.

## **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.

## **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.

## **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.

## Installation and setup

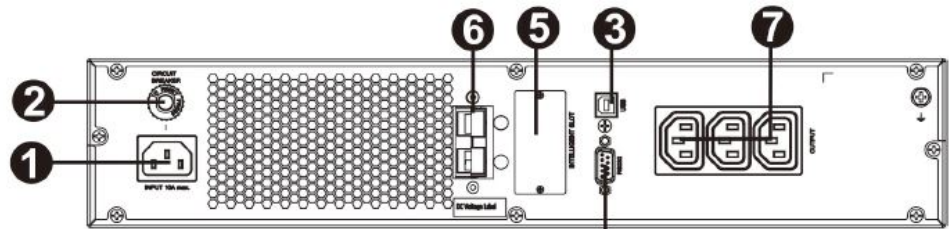
**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. Please keep the original package in a safe place for future use.

**NOTE:** There are two different types of online UPS: standard and long-run models. Please refer to the following model table.

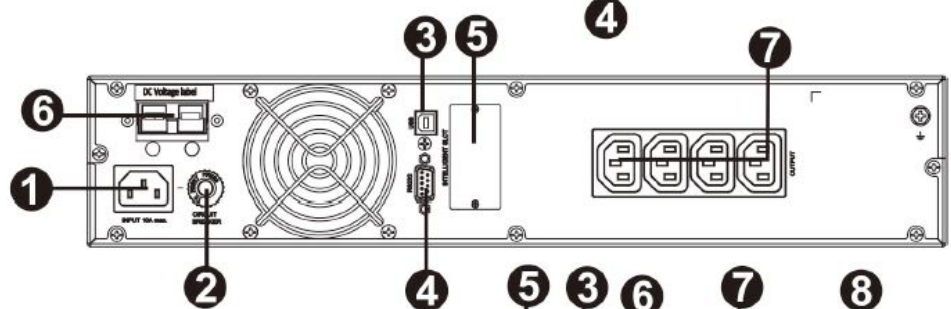
Model	Type	Model	Type
PowerWalker VFI 1000 CRM LCD	Standard model	PowerWalker VFI 1000 CRS LCD	Long-run
PowerWalker VFI 2000 CRM LCD		PowerWalker VFI 2000 CRS LCD	model <b>w/o</b> batteries
PowerWalker VFI 3000 CRM LCD		PowerWalker VFI 3000 CRS LCD	

## Rear panel view

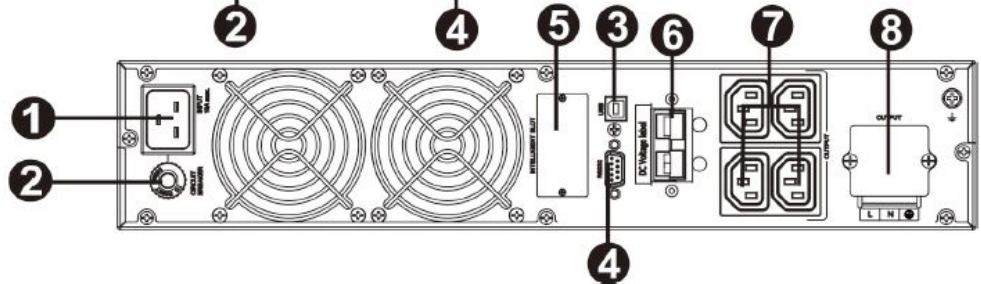
PowerWalker VFI 1000CRM  
LCD(L)



PowerWalker VFI 2000CRM  
LCD(L)



PowerWalker VFI 3000CRM  
LCD(L)

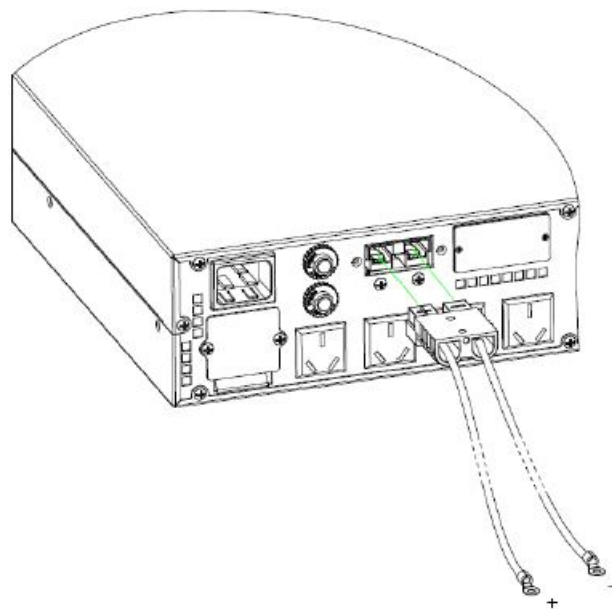


1. AC input
2. Input circuit breaker
3. USB communication port
4. RS-232 communication port
5. SNMP intelligent slot (option)
6. External battery connection
7. Output receptacles
8. Output terminal

### 1-3K Setup the UPS

#### Step 1: External battery connection

This UPS is not including batteries. Please connect external batteries as below chart.



To external battery

### Step 2: 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 3: UPS output connection

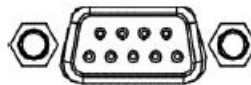
- For socket-type outputs, simply connect devices to the outlets.
- For terminal-type input or outputs, please follow below steps for the wiring configuration:
  - Remove the small cover of the terminal block
  - Suggest using AWG14 or 2.1mm<sup>2</sup> power cords for 3KVA model.
  - Upon completion of the wiring configuration, please check whether the wires are securely affixed.
  - Put the small cover back to the rear panel.

### Step 4: Communication connection Communication port:

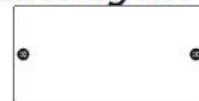
*USB port*



*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 5: 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 6: 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.powerwalker.com/index.php?lang=&page=viewpower>

2. Click ViewPower software icon and then choose your required OS to download the software.

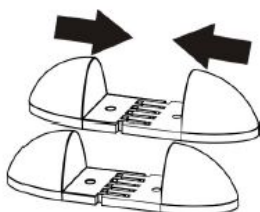
3. Follow the on-screen instructions to install the software.

4. When your computer restarts, the monitoring software will appear as an orange plug icon located in the system tray, near the clock.

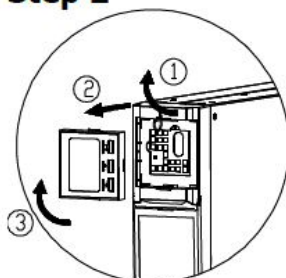
## Tower Installation

The UPS can be also installed in vertical position. The LCD can be rotated by 90 degrees.

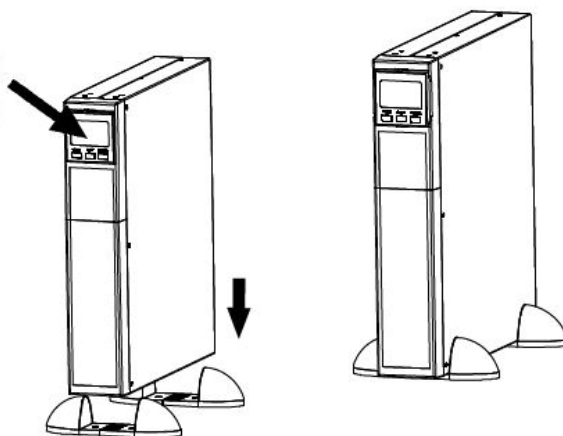
### Step 1



### Step 2



### Step 3



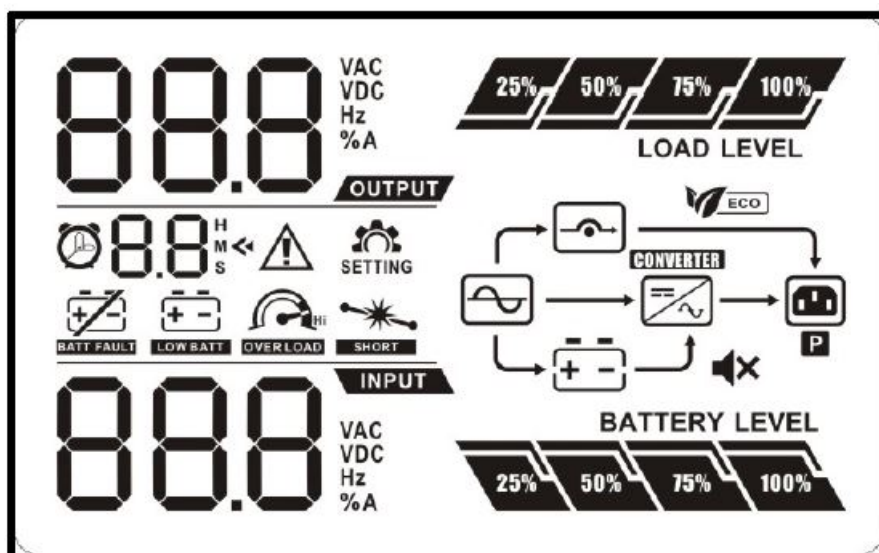
## Operations

### Button operation

Button	Function
ON/Mute Button	<p>Turn on the UPS: Press and hold ON/Mute button for at least 2 seconds to turn on the UPS.</p> <p>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's not applied to the situations when warnings or errors occur.</p> <p>Up key: Press this button to display previous selection in UPS setting mode.</p> <p>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.</p>
OFF/Enter Button	<p>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.</p> <p>Confirm selection key: Press this button to confirm selection in UPS setting mode.</p>
Select Button	<p>Switch LCD message: Press this button to change the LCD message for input voltage, input frequency, battery voltage, output voltage and output frequency. It will return back to default display when pausing for 10 seconds.</p> <p>Setting mode: Press and hold this button for 5 seconds to enter UPS setting mode when UPS is in standby mode or bypass mode.</p> <p>Down key: Press this button to display next selection in UPS setting mode.</p>
ON/Mute + Select Button	<p>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.</p>





## LCD Panel





Display	Function
Remaining backup time information	
	Indicates the remaining backup time in pie chart.
88.8 <sup>H</sup> <sub>M</sub> <sub>S</sub>	Indicates the remaining backup time in numbers. H: hours, M: minute, S: second
Fault information	
	Indicates that the warning and fault occurs.
88	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.
Output & Battery voltage information	
88.8 <sup>VAC</sup> <sub>VDC</sub> <sub>Hz</sub> <sub>%A</sub> OUTPUT	Indicates the output voltage, frequency or battery voltage. Vac: output voltage, Vdc: battery voltage, Hz: frequency
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 connects to the mains.
	Indicates the battery is working.
	Indicates the bypass circuit is working.
	Indicates the ECO mode is enabled.
	Indicates the Inverter circuit is working.
	Indicates the output is working.



Battery information	
	Indicates the Battery level by 0-25%, 26-50%, 51-75%, and 76-100%.
	Indicates the battery is fault.
	Indicates low battery level and low battery voltage.
Input & Battery voltage information	
	Indicates the input voltage or frequency or battery voltage. Vac: Input voltage, Vdc: battery voltage, Hz: input frequency

## Audible Alarm

Description	Buzzer status	Muted
Battery Mode	Sounding every 4 seconds	Yes
Low Battery	Sounding every second	
Overload	Sounding twice every second	
Fault	Continuously sounding	
Bypass Mode	Sounding every 10 seconds	

## LCD display wordings index

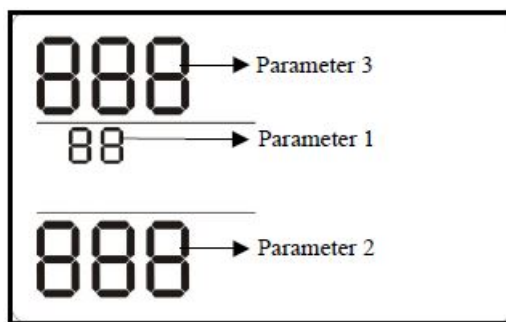
Abbreviation	Display content	Meaning
ENA	ENA	Enable
DIS	DIS	Disable
ESC	ESC	Escape
HLS	HLS	High loss
LLS	LLS	Low loss
BAT	BAT	Battery
CF	CF	Converter
TP	TP	Temperature
CH	CH	Charger
FU	FU	Bypass frequency unstable
EE	EE	EEPROM error

## UPS Setting

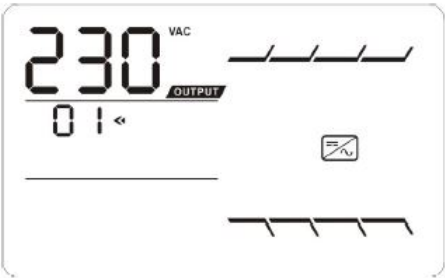
There are three parameters to set up the UPS.

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

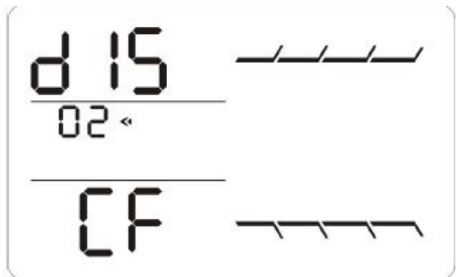
**Parameter 2 and parameter 3** are the setting options or values for each program.



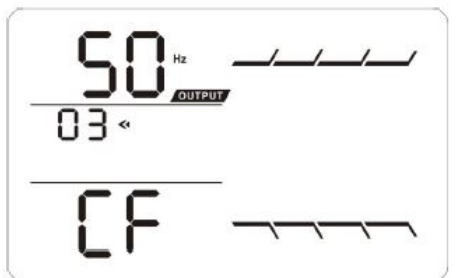
## Output voltage setting

Interface	Setting
	<p><b>Parameter 3: Output voltage</b></p> <p>For 200/208/220/230/240 VAC models, you may choose the following output voltage:</p> <p><b>200:</b> presents output voltage is 200Vac <b>208:</b> presents output voltage is 208Vac <b>220:</b> presents output voltage is 220Vac</p> <p><b>230:</b> presents output voltage is 230Vac (Default)</p> <p><b>240:</b> presents output voltage is 240Vac</p> <p>For 100/110/150/120/127 VAC models, you may choose the following output voltage:</p> <p><b>100:</b> presents output voltage is 100Vac</p>
	<p><b>110:</b> presents output voltage is 110Vac</p> <p><b>115:</b> presents output voltage is 115Vac</p> <p><b>120:</b> presents output voltage is 120Vac (Default)</p> <p><b>127:</b> presents output voltage is 127Vac</p>


## Frequency Converter enable/disable

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Enable or disable converter mode. You may choose the following two options:</p> <p><b>CF ENA:</b> converter mode enable</p> <p><b>CF DIS:</b> converter mode disable(Default)</p>

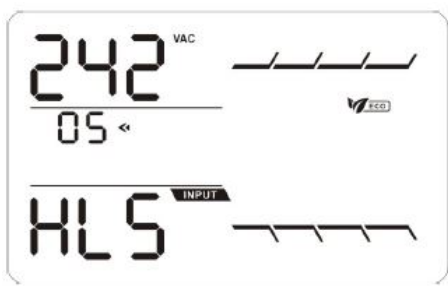
### Output frequency setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3: Output frequency setting.</b> You may set the initial frequency on battery mode: <b>BAT 50:</b> presents output frequency is 50Hz</p> <p><b>BAT 60:</b> presents output frequency is 60Hz</p> <p>If converter mode is enabled, you may choose the following output frequency:</p> <p><b>CF 50:</b> presents output frequency is 50Hz</p> <p><b>CF 60:</b> presents output frequency is 60Hz</p>

### ECO enable/disable


Interface	Setting
	<p><b>Parameter 3:</b> Enable or disable ECO function. You may choose the following two options:</p> <p><b>ENA:</b> ECO mode enable</p> <p><b>DIS:</b> ECO mode disable (Default)</p>

### ECO voltage range setting

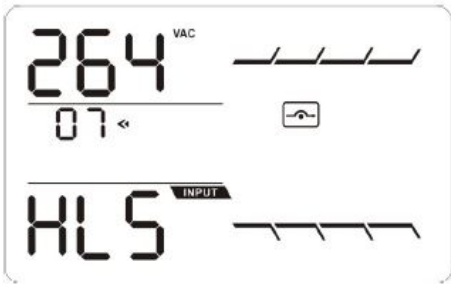
Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Set the acceptable high voltage point and low voltage point for ECO mode by pressing Down key or Up key.</p> <p><b>HLS:</b> High loss voltage in ECO mode in parameter 2.</p> <p>For 200/208/220/230/240 VAC models, the setting range in parameter 3 is from +7V to +24V of the nominal voltage. (Default: +12V)</p> <p>For 100/110/115/120/127 VAC models, the setting range in parameter 3 is from +3V to +12V of the nominal voltage. (Default: +6V)</p> <p><b>LLS:</b> Low loss voltage in ECO mode in parameter 2.</p> <p>For 200/208/220/230/240 VAC models, the setting range in parameter 3 is from -7V to -24V of the nominal voltage. (Default: -12V)</p> <p>For 100/110/115/120/127 VAC models, the setting voltage</p>

	in parameter 3 is from -3V to -12V of the nominal voltage. (Default: -6V)
--	---


#### Bypass enable/disable when UPS is off

Interface	Setting
	<p><b>Parameter 3:</b> Enable or disable Bypass function. You may choose the following two options:</p> <p><b>ENA:</b> Bypass enable</p> <p><b>DIS:</b> Bypass disable (Default)</p>

#### Bypass voltage range setting

Interface	Setting
	<p><b>Parameter 2 &amp; 3:</b> Set the acceptable high voltage point and acceptable low voltage point for Bypass mode by pressing the Down key or Up key.</p> <p><b>HLS:</b> Bypass high voltage point</p> <p>For 200/208/220/230/240 VAC models:</p> <p><b>230-264:</b> setting the high voltage point in parameter 3 from 230Vac to 264Vac. (Default: 264Vac)</p> <p>For 100/110/115/120/127 VAC models:</p> <p><b>115-132:</b> setting the high voltage point in parameter 3 from 115Vac to 132Vac(Default: 132Vac)</p> <p><b>LLS:</b> Bypass low voltage point</p> <p>For 200/208/220/230/240 VAC models:</p> <p><b>170-220:</b> setting the low voltage point in parameter 3 from 170Vac to 220Vac. (Default: 170Vac)</p> <p>For 100/110/115/120/127 VAC models:</p> <p><b>95-110:</b> setting the low voltage point in parameter 3 from 95Vac to 110 Vac. (Default: 95Vac)</p>

#### Autonomy limitation setting

Interface	Setting
	<p><b>Parameter 3:</b> Set up backup time on battery mode for general outlets.</p> <p><b>0-999:</b> setting the backup time in minutes from 0-999 for general outlets on battery mode.</p> <p><b>0:</b> When setting as “0”, the backup time will be only 10 seconds.</p> <p><b>999:</b> When setting as “999”, the backup time setting will be disabled. (Default)</p>

#### 00: Exit setting

## Operating Mode Description





















Operating mode	Description	LCD display
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.	<p>The LCD display shows 230 VAC OUTPUT, 232 VAC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>
ECO mode	Energy saving mode: When the input voltage is within voltage regulation range, UPS will bypass voltage to output for energy saving.	<p>The LCD display shows 232 VAC OUTPUT, 232 VAC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>
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.	<p>The LCD display shows 230 VAC OUTPUT, 232 VAC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>
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.	<p>The LCD display shows 230 VAC OUTPUT, 72.0 VDC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>
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.	<p>The LCD display shows 232 VAC OUTPUT, 232 VAC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>
Standby mode	UPS is powered off and no output supply power, but still can charge batteries.	<p>The LCD display shows 0 VAC OUTPUT, 232 VAC INPUT, and a battery level of 75%. The load level is indicated by a bar graph showing 25%, 50%, and 75%.</p>

## Faults Reference Code



Fault event	Fault code	Icon	Fault event	Fault code	Icon
Bus start fail	01	x	Inverter output short	14	
Bus over	02	x	Battery voltage too high	27	
Bus under	03	x	Battery voltage too low	28	
Bus unbalance	04	x	Over Temperature	41	x
Inverter soft start fails	11	x	Overload	43	
Inverter voltage high	12	x	Charger failure	45	x
Inverter voltage Low	13	x			

### Warning indicator









Warning	Icon (flashing)	Alarm
Low Battery	 	Sounding every second
Overload	 	Sounding twice every second
Battery is not connected	 	Sounding every second
Over Charge	 	Sounding every second
Over temperature	 	Sounding every second
Charger failure	 	Sounding every second
Battery fault	 	Sounding every second
Out of bypass voltage range	 	Sounding every second
Bypass frequency unstable	 	Sounding every second
EEPROM error	 	Sounding every second

### 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.



<p>The icon  and  flashing on LCD display and alarm is sounding every second.</p>	<p>The external or internal battery is incorrectly connected.</p>	<p>Check if all batteries are connected well.</p>
<p>Fault code is shown as 27 and the icon  is lighting on LCD display and alarm is continuously sounding.</p>	<p>Battery voltage is too high or the charger is fault.</p>	<p>Contact your dealer.</p>
<p>Fault code is shown as 28 and the icon  is lighting on LCD display and alarm is continuously sounding.</p>	<p>Battery voltage is too low or the charger is fault.</p>	<p>Contact your dealer.</p>
<p>The icon  and  is flashing on LCD display and alarm is sounding twice every second.</p>	<p>UPS is overload</p>	<p>Remove excess loads from UPS output.</p>
	<p>UPS is overloaded. Devices connected to the UPS are fed directly by the electrical network via the Bypass.</p>	<p>Remove excess loads from UPS output.</p>
	<p>After repetitive overloads, the UPS is locked in the Bypass mode. Connected devices are fed directly by the mains.</p>	<p>Remove excess loads from UPS output first. Then shut down the UPS and restart it.</p>
<p>Fault code is shown as 43 and The icon  is lighting on LCD display and alarm is continuously sounding.</p>	<p>The UPS shut down automatically because of overload at the UPS output.</p>	<p>Remove excess loads from UPS output and restart it.</p>
<p>Fault code is shown as 14 and the icon  is lighting on LCD display and alarm is continuously sounding.</p>	<p>The UPS shut down automatically because short circuit occurs on the UPS output.</p>	<p>Check output wiring and if connected devices are in short circuit status.</p>

Fault code is shown as 01, 02, 03, 04, 11, 12, 13, 41 and 45 on LCD display and alarm is continuously sounding.	<p>A UPS internal fault has occurred. There are two possible results:</p> <ol style="list-style-type: none"> <li>1. The load is still supplied, but directly from AC power via bypass.</li> <li>2. The load is no longer supplied by power.</li> </ol>	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.

## 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

## Specifications

MODEL		PowerWalker VFI 1000CRM LCD (L)	PowerWalker VFI 2000CRM LCD (L)	PowerWalker VFI 3000CRM LCD (L)
CAPACITY*		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT				
Voltage Range	Low Line Transfer	85VAC/75VAC/65VAC/55VAC±5% or 160VAC/140VAC/120VAC/110VAC±5% (Ambient Temp.<350C) ( based on load percentage 100% – 80 % / 80 % – 70 % / 70 – 60 % / 60 % – 0)		
	Low Line Comeback	95VAC/85VAC/75VAC/65VAC or 175VAC/155VAC/135VAC/125VAC ± 5 % (Ambient Temp.<350C) ( based on load percentage 100% – 80 % / 80 % – 70 % / 70 – 60 % / 60 % – 0)		
	High Line Transfer	145 VAC ± 5 % or 300 VAC ± 5 %		
	High Line Comeback	140 VAC ± 5 % or 290 VAC ± 5 %		
Frequency Range		40Hz ~ 70 Hz		
Phase		Single phase with ground		
Power Factor		≥ 0.99 @ nominal voltage (input voltage)		
OUTPUT				
Output voltage		100/110/115/120/127VAC or 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.<350C  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			
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.)		
Charging Voltage	27.4 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
PHYSICAL			
Dimension, D X W X H	310 X 438 X 88 ( mm)	410 X 438 X 88 (m m)	630 X 438 X 88 (mm)
Net Weight (kgs)	12	19	29,3
ENVIRONMENT			
Operation Humidity	20-90 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 50dBA @ 1 Meter		
MANAGEMENT			
Smart RS-232 or USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

The long-run model is only available in 200/208/220/230/240VAC systems.

Derate capacity to 80% of capacity in Frequency converter mode or when the output voltage is adjusted to 100/200/208VAC.  
Product specifications are subject to change without further notice

**Documents / Resources**

	<p><a href="#">PowerWalker VFI 1000 CRM LCD Uninterruptible Power Supply System</a> [pdf] User Manual VFI 1000 CRM LCD, VFI 2000 CRM LCD, VFI 3000 CRM LCD, Uninterruptible Power Supply System</p>
---	---

**References**

- [BlueWalker](#)