

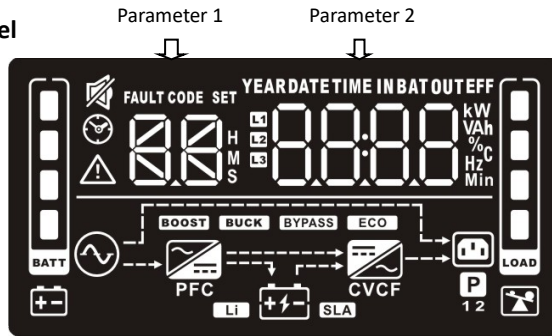
Quick Guide

PowerWalker VI CW Series

I. Setup Requirements

1. Leave sufficient space around for air circulation (recommended 10cm in front, 30cm in the back and 30cm on sides)
2. Keep ambient temperature below 40°C. Between 40-50°C the UPS will gradually derate the maximal Power reaching 70% at maximal 50°C.
3. Install the UPS at maximum altitude of 1000m. Between 1000-5000m the UPS will gradually derate the maximal Power reaching 65% at 5000m.

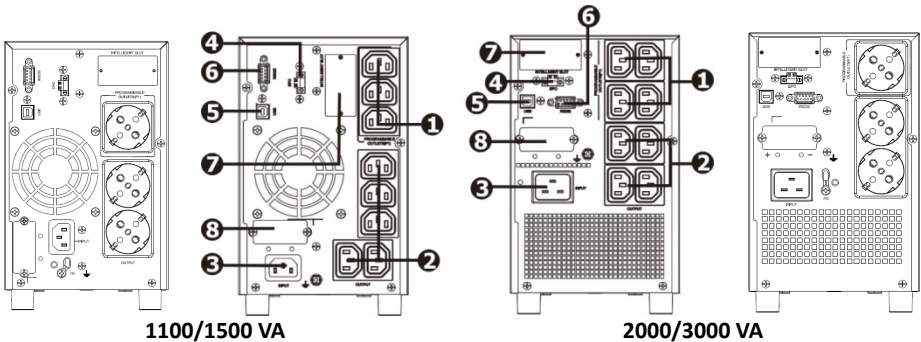
II. LCD Panel



Display	Function
	Indicates the estimated backup time. H: hours, M: minute, S: second.
	Indicates the configuration items
	Indicates the warning and fault codes
	Indicates that the UPS alarm is disabled.
	Indicates the input voltage, input frequency, input current, battery voltage, battery current, battery Power, ambient temperature, output voltage, output frequency, load current and load percent.
	Indicates the load level by 0-24%, 25-49%, 50-74% and 75-100%.
	Indicates overload.
	Indicates that programmable management outlets are working.
	Indicates the UPS connects to the mains.

	Indicates the battery is working.
	Indicates charging status
	Indicates the UPS is working in boost mode (AVR activated)
	Indicates the UPS is working in buck mode (AVR activated)
	Indicates the ECO mode is enabled.
	Indicates the AC to DC circuit is working.
	Indicates the inverter circuit is working.
	Indicates the output is working.
	Indicates the battery level by 0-24%, 25-49%, 50-74%, and 75-100%.
	Indicates low battery.

III. Rear panel view



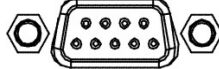
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|--------------------------|------------------------------------|--|
| 1. Programmable outlets: | connect to non-critical loads. | 4. "Emergency Power Off" connector (EPO) |
| 2. Standard outlets: | connect to mission-critical loads. | 5. USB communication port |
| 3. AC input | | 6. RS-232 communication port |
| | | 7. SNMP intelligent slot |
| | | 8. Battery Pack connector ** |

IV. Communication ports

USB port



RS-232 port











Intelligent slot



Apart from standard USB Port, the UPS is equipped with RS-232. Those two ports do not work at the same time.

V. Modes and warnings

Warning	Icon	Alarm	Mutable
ECO mode		No Alarm	N/A
Boost Mode (AVR)		No Alarm	N/A
Buck Mode (AVR)		No Alarm	N/A
Battery mode		Sounding every 10 seconds	Yes
Standby mode		No Alarm	N/A
Fault Mode		Sounding continuously	N/A
Low Battery		Sounding every 2 seconds	No
Overload (Error 43)		Sounding every second	No
Over input current		Sounding 2 beep every 10 seconds	No
Battery is not connected		Sounding every 2 seconds	No
Battery Over Charge (Error 27)		Sounding every 2 seconds	No

Site wiring fault	 	SF	Sounding every 2 seconds	No
EPO enabled		EP	Sounding every 2 seconds	No
Over temperature (Error 41)		EP	Sounding every 2 seconds	No
Charger failure (Error 45)		CH	Sounding every 2 seconds	No
Battery fault		BF	Sounding every 2 seconds (UPS remains off to enforce the battery check)	No
Battery replacement		BR	Sounding every 2 seconds	No
EEPROM error		EE	Sounding every 2 seconds	No

VI. Button operation

ON/Mute Button

- Press and hold ON/Mute button for at least 2 seconds to turn on the UPS.
- When the UPS is on battery mode, press and hold this button for at least 3 seconds to disable or enable the alarm system. But it's not applied to the situations when warnings or errors occur.
- Press this button to display previous selection in UPS setting mode (up key)
- Press and hold ON/Mute button for 3 seconds to enter UPS self-testing while in AC mode, ECO mode, or converter mode.

OFF/Enter Button

- 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 enabled" setting is activated.
- Press this button to confirm selection in UPS setting mode.

Select Button

- Press this button to change the LCD message for input voltage, input frequency, battery voltage, output voltage and output frequency.
- Press and hold this button for 3 seconds to enter UPS setting mode when UPS is in standby mode or "bypass" mode.
- Press this button to display next selection in UPS setting mode. (down key)

ON/Mute + Select Button

- When the input power is normal, press the two buttons simultaneously for 3 seconds. Then UPS will enter to the „bypass" mode. This action will be ineffective when the input voltage is out of acceptable range.
- In setting mode, press the two buttons simultaneously for 0.2s to exit the setting mode.

VII. UPS Settings

Parameter 1		Parameter 2	
01	Output voltage setting	208/220 /230/240	Value in V AC
02	Programmable outlets	ENA/dIS	Enable or Disable (default).
03	Settings of programmable outlets	0-999	Backup time limit for programmable outlets (default 999)
04	This is reserved position, changing the value will not have any effect		
06	Limitation setting for autonomy time	0-999/dIS	Limit in minutes; 0 actually means 10s
07	This is reserved position, changing the value will not have any effect		
08	EPO logic setting	AO	Normally Open (default). EPO will be activated if pins 1 and 2 are not shorted
		AC	Normally Closed. EPO will be activated if pins 1 and 2 are shorted
00	Exit Settings		

VIII. Programmable Outlets

The settings can be only changed in Standby Mode. After you setting the time limit, Exit the Settings (Menu 00) and disconnect input, wait until it shuts off completely. Settings will be saved after the UPS is turned on again.

IX. Site Wiring Fault

“Site Wiring Fault” can be disabled via software. Please check software manual for details.

X. Technical Specification

MODEL	VI 1100 CW	VI 1500 CW	VI 2000 CW	VI 3000 CW
POWER*	1100VA/770W	1500VA/1050W	2000VA/1400W	3000VA / 2100W
INPUT				
Acceptable Voltage	162-290 VAC			
Frequency Range	50/60 Hz \pm 5 Hz (auto sensing)			
OUTPUT				
Output voltage	208*/220/230/240VAC			
AC Voltage Regulation	\pm 1.5% (Batt. Mode)			
Frequency Synchronized Range	47 ~ 53 Hz or 57 ~ 63 Hz			
Frequency Range	50 Hz \pm 0.1 Hz or 60Hz \pm 0.1 Hz (Batt. Mode)			
AVR boost/buck	-10%/+16% at 208V; -15%/+10% at 220V; -15%/+10% at 230V; -15%/+10% at 240V			
Current Crest Ratio	3:1			

Harmonic Distortion	≤ 2 % THD (Linear Load) ; 5 % THD (Non-linear Load)			
Transfer Time	Typical 2-6 ms, 10ms max.			
Waveform	Pure Sinewave			
Overload	LINE: 5min @ 103-120%; 10s @ 120-150%; 1s @ >150% BAT: 1min @ 103-120%; 10s @ 120-150%; 0.5s @ >150%			
EFFICIENCY				
AC Mode	>96% @ full charged battery			
ECO Mode	>97% @ full charged battery			
Battery Mode	>88%		>90%	
BATTERY				
Battery Type	12V/7AH	12V/9AH	12V/7AH	12V/9AH
Numbers	3		6	
Recharge Time	4 hours recover to 95% Power for internal battery			
Charging Current	1.4 A			
Battery Pack**	Battery Pack Connector available **			
PHYSICAL				
Dimension, D x W x H	397 X 145 X 220		455 X 145 X 220	
Net Weight (kgs)	11.65	12.35	18.1	20.3
ENVIRONMENT				
Operation Humidity	20-95 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 45dBA @ 1m (with automatic fan speed control)			
MANAGEMENT				
USB with HID	PowerWalker ViewPower			

* Derate Power to 80% of Power when the output voltage is adjusted to 208VAC.

**Derate Power to 70% of Power when Battery Pack is connected