



Manual

PowerWalker VI RLP Series

1000-3000

PowerWalker

IMPORTANT SAFETY INSTRUCTIONS

This manual contains important 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.

CAUTION! The UPS must be connected to a grounded AC power outlet with fuse or circuit breaker protection. DO NOT plug the UPS into an outlet that is not grounded. If you need to power-drain this equipment, turn off and unplug the unit.

CAUTION! The battery can power hazardous components inside the unit, even when the AC input power is disconnected.

CAUTION! The UPS should be placed near the connected equipment and easily accessible.

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area, free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

CAUTION! (No User Serviceable Parts): Risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION! (Non-Isolated Battery Supply): Risk of electric shock, battery circuit is not isolated from AC power source; hazardous voltage may exist between battery terminals and ground. Test before touching.

CAUTION! To reduce the risk of fire, connect the UPS to a branch circuit with 10 amperes (850 / 1K / 1.5K) / 16 amperes (2K / 3K) maximum over-current protection in accordance with CE requirement.

CAUTION! The AC outlet where the UPS is connected should be close to the unit and easily accessible.

CAUTION! Please use only VDE-tested, CE-marked mains cable, (e.g., the mains cable of your equipment), to connect the UPS to the AC outlet.

CAUTION! Please use only VDE-tested, CE-marked power cables to connect any equipment to the UPS.

CAUTION! When installing the equipment, ensure that the sum of the leakage current of the UPS and the connected equipment does not exceed 3.5mA.

CAUTION! The 1000 / 2000 / 3000 / Battery module models are only qualified maintenance personnel may carry out installations. **CAUTION!** Do not unplug the unit from AC Power during operation, as this will invalidate the protective ground insulation.

CAUTION! To avoid electric shock, turn off and unplug the unit before installing the input/output power cord with a ground wire. Connect the ground wire prior to connecting the line wires!

CAUTION! Do not use an improper size power cord as it may cause damage to your equipment and cause fire hazards.

CAUTION! Wiring must be done by qualified personnel.

CAUTION! DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! Under no circumstances this unit should be used for medical applications involving life support equipment and/or patient care.

CAUTION! DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire, do not use with or near aquariums. Condensation from the aquarium can come in contact with metal electrical contacts and cause the machine to short out.

CAUTION! Do not dispose of batteries in fire as the battery may explode.

CAUTION! Do not open or mutilate the battery, released electrolyte is harmful to the skin and eyes.

CAUTION! A battery can present a risk of electric shock and high short circuit current. The following precaution should be observed when working on batteries

1. Remove watches, rings, or other metal objects.

2. Use tools with insulated handles.

CAUTION! The unit has a dangerous amount of voltage. When the UPS indicators is on, the units may continue to supply power thus the unit's outlets may have a dangerous amount of voltage even when it's not plugged in to the wall outlet.

CAUTION! Make sure everything is turned off and disconnected completely before conducting any maintenance, repairs, or shipment.

CAUTION! Connect the Protection Earth (PE) safety conductor before any other cable is connected.

WARNING! (Fuses): To reduce the risk of fire, replace only with the same type and rating of fuse.

DO NOT INSTALL THE UPS WHERE IT WOULD BE EXPOSED TO DIRECT SUNLIGHT OR NEAR A STRONG HEAT SOURCE! DO NOT BLOCK OFF VENTILATION OPENINGS AROUND THE HOUSING!

DO NOT CONNECT DOMESTIC APPLIANCES SUCH AS HAIR DRYERS TO UPS OUTPUT SOCKETS!

SERVICING OF BATTERIES SHOULD BE PERFORMED OR SUPERVISED BY PERSONNEL KNOWLEDGE OF BATTERIES AND THE REQUIRED PRECAUTIONS. KEEP UNAUTHORIZED PERSONNEL AWAY FROM BATTERIES!

UNPACKING

(1) UPSx1; (2) User's manual x1; (3) Input power cord x1; (4) Flat head screws: M4x8Lx8; (5) Rackmount trail (optional)x1; (6) Screw hole dust covers x1; (7) Rackmount ears (Stands)x2; (8) USB communication cable (optional)x1.



BASIC OPERATION

UPS FRONT/REAR PANEL DESCRIPTION

- 1. Power On/Off Button
 - Master ON/OFF for the UPS.
- Function Buttons Scroll up, scroll down, select, and cancel LCD menu in setting mode.
- Multifunction LCD Readout Indicate status information, settings, and events.
- Input Circuit Breaker Provide input overload and fault protection.

5. Independent Outlets

Provide battery backup and surge protection. They ensure power is provided to connected equipment over a period of time during a power failure. **Most important, the 8 outlets can be set up and work independently.**

6. Serial Port

Serial port provides communication between the UPS and the computer. The UPS can control the computer's shutdown during a power outage through the connection while the computer can monitor the UPS and alter its various programmable parameters.

7. USB port

This is a connectivity port which allows communication and control between the UPS and the connected computer. It is recommended to install the Power master software on the PC/Server connected with the USB cord.

8. SNMP/HTTP Network slot

Slot to install the optional "SNMP card 2" for remote network control and monitoring.

- Extended Runtime Battery Module Connector Connect to additional external battery modules.
- 10. EPO (Emergency Power Off) Connector Enable Power-Off in emergency from a remote location.

11. AC Input Inlet

Connect the AC Power cord to a properly wired and grounded outlet.

<u>UPS – External Battery Module Connection (1) :</u> <u>Single Battery Pack Installation</u>

- Step1: Use the battery cable of the Battery module to connect the Battery module to the UPS module.
- Step 2: Use screws to fix ground connection.

<u>UPS – External Battery Module Connection (2) :</u> <u>Multiple Battery Packs Installation</u>

- Step 1: Connect the 1st Battery module to the UPS module using battery cable.
- Step 2: Use the battery cable to connect the 2nd Battery module to the 1st Battery module.
- Step 3: Use screws to fix ground connection.











DEFINITIONS FOR OTHER ICONS

	MUTE : This icon appears whenever the UPS is in silent mode. The alarm does not beep during silent mode until the battery reaches low capacity.
(LEBH)	EBM: Indicate the numbers of external battery module.
	SCHEDULE : Users can setup the schedule to turn on and shut down the computer and UPS through PowerMaster Management software. The LCD display will show how much time is left before the UPS will turn back on or shut down.
\otimes	FAULT: This icon appears if there is a problem with the UPS.
	Setting mode
	Bat mode: When this icon is blinking, the batteries need to be replaced.
Ð	Line mode: Solid light
	Load capacity 1000 75 500 25 0
	Battery capacity: Image: Battery capacity Bat mode: 100 Line mode: 75 2. Battery charging: cycle lighting 50 3. Line mode without charger: battery capacity 25



LCD DISPLAY

1.Press the display key "UP/DOWN" to indicate the different item

Item	Description	LCD display
4.4.4.6.00	AC input	
ist (default)	AC output	
	Battery remaining time	
210	Load capacity	
	Battery capacity	
310	Temperature	
	Output1 status	کر ا
4th		iOn
	Output2 status	
		Ų
5-7th	Output3-8 status same to 4th	lon

2.Press the "UP/DOWN" button simultaneously for 3 seconds to activate or exit the vertical screen mode.

Landscape Mode	Vertical Screen Mode



BUTTON OPERATION

	Operation Description
POWER	Press this button to turn on UPS. In line mode, Battery mode press the button to turn off UPS
SETUP	Press this button simultaneously for 5 seconds to get into setting mode while in standby mode. Press this button for long time to exit setting mode and saving changes.
UP/DOWN	In setting mode, press this button to display next selection, or press this button for long time to exit setting mode without saving changes. In line mode, bypass mode, battery mode, press the button 5 seconds to switch the LCD display orientation from Rack to Tower form
ENTER	In setting mode, press this button to confirm selection In line mode, bypass mode, battery mode, press the button3 seconds to enable or disable the buzzer

LCD SETTINGS CONFIGURATION

There are 9 UPS settings that can be configured by the user.

- Press the "SETUP" button for 5 seconds to activate or exit the setting mode. The first configuration parameter will be displayed on the LCD screen. Note: The manual settings programming mode can ONLY be invoked while UPS is in Standby mode. To make UPS on Standby mode, connect utility power to UPS and do not turn on UPS.
- 2. Press the "UP/DOWN" button to scroll different page or the different parameters.
- 3. Press the "ENTER" buttons to select the parameter you want.

Setting item	Configure Submenu	Available Settings	Default Setting	LCD Display
001-008	Output1-8 settings	[dEL on] delay on/ [[dEL oFF] delay off/ [dEL rbt] delay reboot [iMM on] immediately on / [[iMM oFF] immediately off/ [iMM rbt] immediately reboot	dEL on	
009	Output Voltage	[208V] [220V]230V[240V]	230V	ت در ۲۱ ـ ۵ ۲۱ ۵
010	Output Frequency	[50Hz] [60Hz]	50Hz	© L.C.) D. L.) D
011	EBM Number	[0bP]/[1bP/]/[2bP]	0Bp	



012	Charging current	[1A]/[3A]/[6A]	1A	
013	Battery Self-test	[10S] battery self-test 10s/[LoW]battery self-test until battery low	105	
014	Battery Month test	[EnA]/[dlS]	EnA	bit EnA
015	Power on delay	[EnA]/[dlS]	EnA	Pod En A
016	Reset	[yES]/[no]	no	rft

Event ID Descriptions

Event ID	Description of Case	Remedy				
E05	INV soft Start Fail					
E07	INV Volt High	Restart the UPS, if the fault is still, please contact Technical Support.				
E08	INV Volt Low					
E09	INV Short	Your attached equipment may have problems, please remove them, and check again.				
E11	Bat Volt High					
E12	Bat Volt Low					
A59	Bat Disconnect	Shutdown the ups and check the battery connect or replace them, then restart the ups.				
A62	Bat Bad					
A56	Bat Volt Low					
A64	Overload Warning	Shut off the nen ecceptic equipment then LIDS may be normal				
E14	Overload	Shut on the non-essential equipment then OFS may be normal.				
E18	Fan Fail	Shutdown the upp and check the fan ar rankage, then the LIDS can work normally				
A69	Fan Lock	Shudowit the ups and check the fail of replace, then the OPS can work normally.				
E19	Over Temperature	Environment or UPS temperature may too high, move UPS to a cool environment or shu				
A68	Over Temperature	off the non-essential equipment.				
A66	EPO Active	Check the EPO terminal, it may fall off, install it again will be ok.				

PowerWalker

TECHNICAL SPECIFICATIONS

Model	1000R 2000R 3000R								
Configuration									
Capacity (VA)	1000VA	2000VA	3000VA						
Capacity (Watts)	900W 1800W 2700W								
Form Factor		Rack/Tower							
Input									
Input Voltage Range	165 VAC ~290VAC								
Input Frequency Range	45~65Hz								
Input Power Factor		0.98							
Cold Start		Yes							
Output									
Output Waveform		Pure Sine Wave							
Output Voltage		230Vac ±10%							
Output Frequency	50 / 6	0Hz (Auto Sensing or Configurable) ±	1%Hz						
Transfer Time (Typically)		2~6ms typical, 10ms max							
Rated Power Factor		0.9							
Protection									
Surge Protection		IEC 61000-4-5 Level 4							
U	Line Mode: >110% alarm continuous. <100% go back								
Overload Protection	AVR & Battery Mode: >110% Fa	ult after 1MIN, <100% go back, >120%	6 Fault immediately						
Short Circuit									
Protection	OPS Output Cut o	in Infinediately of Input Fuse / Circuit	Breaker Protection						
Battery									
Specifications	(12V/9AH) *2	(12V/9AH) *4	(12V/9AH) *6						
Recharge Time (Typically)		4 Hours (inside batteries)							
Sealed,		Ves							
Maintenance Free		103							
Status Indicators									
LCD Screen		Graphic LCD							
Audible Alarms	Battery Mode, Battery Charger Failure /Ove	/ Low, Overload, UPS Fault, Replace er Charged, Fan failure, EPO active, o	Battery, Bypass Mode over temperature etc.						
Environment									
Operating Temperature		32°F to 104°F (0°C to 40°C)							
Operating Relative Humidity		10to 90% non-Condensing							
Management									
On-Device	0-167								
Features	Seif-Iest, Au	ito-Charge, Auto-Restart, Auto-Overlo	ad Recovery						
Connectivity Ports		(1) Serial Port (RS232). (1) USE	Port						
SNMP/HTTP Capable		(1) Expansion Port							

BATTERY INSTALL ATION AND REPLACEMENT

Step 1: Remove the front panel. Remove the retaining screws from the battery bracket and then remove the cover itself. Disconnect the connectors.

Step 2: Pull the battery tray out slowly. Put the new battery tray back into the compartment after that.

Step 3: Fasten the battery bracket and then insert the connectors. Place the connectors in the bracket.

Step 4: Tighten the screws of the battery bracket and front panel.





Step3



Step2



Step4



TROUBLE SHOOTING

Problem	Possible Cause	Solution			
Warning					
O/P Overload	Your equipment requires more power than the UPS can provide. If the UPS is in Line Mode, then it will transfer to Bypass Mode; if the UPS is in Battery Mode, it will shut down.	Shut off non-essential equipment. If this solves the overload problem, the UPS will transfer to normal operation.			
Battery Mode	UPS is operating on battery power.	Save your data and perform a controlled- shutdown.			
Battery Low	UPS is operating on battery power and will be shutting down soon due to extremely low battery voltage.	UPS will restart automatically when acceptable utility power returns.			
BAT Disconnected/	Missing battery power.	Check battery connector when use battery packages.			
Battery Replace	UPS has failed in Battery Test.	Contact technical support to replace the battery.			
Charger Failure	Charger has failed.	 Shut down UPS and turn off AC input. Contact the dealer for repair. 			
EPO OFF	Missing the EPO connection.	Check the EPO connection.			
Fault					
Over Temperature	High ambient temperature.	 Shut down UPS. Restart UPS to Check the fan for operation and if the ventilation hole has been covered Contact the dealer for repair. 			
Output Short	Output short circuit.	 Shut down UPS Your attached equipment may have problems, please remove them and check again. 			
High O/P V	Output voltage is too high.				
Low O/P V	Output voltage is too low.	1. Shut down UPS 2. Contact the dealer for repair			
Bus Fault	Internal DC bus voltage is too high or too low.				
Other					
Startup fail	High temperature, or fan fail, or battery low, or EPO off.	 Restart UPS and press the "▼" button to view the warning event. Then refer to the solution for the warning. Contact the dealer for repair. 			



INDIVIDUAL OUTLET CONTROL

Method 1: Through LCD setting: Setting item 001-008

	[OUT]+/ [001]+/	*1	
Outlet1 ON/OFF	[DEL][ON]+ (DEL][OFF]+ [MM][ON]+ [MM][OFF]+	ø	

Method 2: Through PowerMaster+ Local: [UPS SETTING->CONFIGURATION]



Method 3: Trough SNMP Card 2 Webpage: [UPS->Outlet Action->Outlet Management]

UPS Power Management				Administrator lo	gin from192.168.203.62 UPS Log System	🔒 [Logout] 🛛 💻 m Help	
	Outl	et M	anager				
Status	Out	let Sel	ection 🗌 A	All			
Information		#	Outlet Name		On Delay (sec.)	Off Delay (sec.)	Reboot Duration (sec.)
Configuration		1	Outlet1		3	3	5
Master Switch		2	Outlet2		3	3	5
Outlet Action		3	Outlet3		3	3	5
Management		4	Outlet4		3	3	5
Control		-	Oddet4		-	5	-
Schedule		5	Outlet5		3	3	5
AutoPing		6	Outlet6		3	3	5
Diagnostics		7	Outlet7		3	3	5
Wake on Lan		8	Outlet88		3	3	5
PowerMaster [®] List	Ne	ext »					



AUTO-PING

The Auto-Ping feature allows the SNMP Card 2 to detect if a target device becomes unresponsive to IP pings and automatically reboot the device. If the device gets back to normal operation after reboot, network connection could be restored at the same time. First add an IP address of the target device and correlate the IP address to specific outlet, which powers the device. The SNMP Card 2 begins to verify its connection to the internet by periodically sending IP pings to the device. If the SNMP Card 2 continuously receives no response from the device, the setting action will be triggered on the outlet. To utilize the function, AutoPing configuration is based on different applications.

Auto Ping setting: [UPS->Outlet Action->Outlet AutoPing]

Administrator login hon 192 188 203 55 🎪 Lagood 🛤 UPS Power Management Summary 1927 Log System Help										
	AutoPing									
Status	Status	Name	Active	Priority IP Address	Target IP Address	Period (sec.)	Retries	Action	Restart Delay (min.)	Outlet
Information	Disabled	AutoPing Name 1	Disabled	-	192 168 203 116	30	5	Reboot (3)	10	[7]
Configuration	Success	AutoPing Name 2	Enabled		192.168.203.79	33	3	Turn Off	3	[1.2.3.4,5,6,7,8]
Master Switch	Disabled	AutoPing Name 3	Disabled		192.168.203.116	44	44	Turn On	4	[1.2,6,7,8]
Outlet Action	Success	AutoPing Name 4	Enabled		192 168 203 58	999	200	Reboot (50)	10	[2.3.7.8]
Control	Success	AutoPing Name 5	Enabled		1.1.1.1	567	123	Turn Off	0	[1.2.3.4.5.6.7.8]
Schedule	Disabled	AutoPing Name 6	Disabled		254 128 0.0	999	3	Reboot (20)	3	[1,6,8]
AutoPing	Disabled	AutoPing Name 7	Disabled	-	192.168.203.116	79	79	Reboot (7)	9	[2,3,4,5,7]
Diagnostics	Success	AutoPing Name 8	Enabled		192.168.203.79	31	3	Reboot (2)	1	[3.5.6.8]
Wake on Lan	Disabled	AutoPing Name 9	Disabled	-	0.0.0.0	30	2	Reboot (1)	0	[4]
PowerMaster [®] List	Disabled	AutoPing Name 10	Disabled		0.0.0.0	30	2	Rebott (1)	0	[1,5,6,8]

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.

LOCAL			B P	OWERMASTE					
PC-202001010127 C DASHBOARD UP5 SETTE			SETTINO - REPORTINO - HELP				🕞 FC-222000027 - 🔘 Galania - 🔘 DAGURA - (9		
Output Output Bullery	DASH	DASHBOARD							
Device Norma HC-20020000027 Leastinn Centost	The UPS Plasma is The serve	a working narmolly. 4 bottory replacement d pullor in extended passer	olo. od type a lintel skutslavan ge	secturity that strates	we obtain of Villay powe	erfoliure and Rom	aning surface will be	enderstelle events an	e inactivated.
Model Avidoc20008	det Input			Output			Battory		
Serial Number: Firmwore Version	rial Number: marro Version Normal		0	Normal		•	Normal, Charging		0
25				2011 C 101					
LCD Firmwore Version	Valtage	236.6 V		Valtage	234.9 V		Copocity	37.%	
USB Version:	Freque	10y 0000 Hz		Frequency	5030 Htt		Voltage	535 V	
Line meroteo				Lood	0 K		Remaining	29.00min	
Power Betting: 2000 Vik / 1900 W							Burtama		
Voltoge Roting: 230 V	byshore								_
Current Rating: 6.6 Amo	harris								•
Frequency Roting: 40-50 Hz	Terrpo	enure 280 °C/8	2.4-4						
NCLEENIC 8 Extended Bettery Module:	Record	Rosent Events Page: C 2 3 4 5 3							
Replace Battery:	Dete	Date & Time 1		Event 1					
	. 2022	03-29 07:00.49 PM	i UtiRy power he	Utility power has been restared, the battery has stopped supplying power.					

Installation procedure:

- 1. Download PowerMaster from the website: https://powerwalker.com/software/#powermaster
- 2. Double-click the file and follow the installation steps.

When your computer restarts, the PowerMaster software will appear as a blue icon located in the system tray.

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