# ViewPower HTML5

**User Manual** 

Management Software for Uninterruptible Power Supply Systems

# Table of Contents

1.	View	Power Overview	. 1
	1.1. In	troduction	. 1
	1.2. St	ructure	. 1
	1.3. Ap	plications	. 1
	1.4. Fe	atures	. 2
2.	View	Power Install and Uninstall	. 2
	2.1. Sy	stem Requirement	. 2
	2.2. Sc	ftware Install	. 3
	2.3. Sc	ftware Uninstall	. 7
3.	Serv	ice Tray Application	. 7
	3.1. St	art Monitor	. 7
	3.2. St	op Monitor	. 8
	3.3. Co	nfiguration	. 8
	3.3.1	Port Modification	
	3.3.2	ViewPower Start And Exit Setting	. 8
	3.3.3	Software Upgrades	. 9
	3.3.4	Configuration Saved	.10
	3.4. Sc	ftware Update	.10
	3.5. De	bug Mode	.11
	3.6. Op	en Monitor	.12
	3.7. Me	essage Board	.12
		it	
4.		Power GUI Interface	
		fresh	
	4.2. UF	'S Searching	.14
		5	
		S Navigation	15
	4.3.1	S Navigation Monitored UPS Information	15 15
_	4.3.1. 4.3.2	S Navigation Monitored UPS Information UPS Remote Control & Monitor	.15 .15 .16
5.	4.3.1. 4.3.2. <b>View</b>	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .15 .16 <b>17</b>
5.	4.3.1 4.3.2 <b>View</b> 5.1. View	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .15 .16 <b>17</b> .17
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vie 5.1.1.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .15 .16 <b>17</b> .17
5.	4.3.1 4.3.2 <b>View</b> 5.1. Vie 5.1.1 5.1.2	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .16 .16 .17 .17 .17
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .16 <b>17</b> .17 .17 .18 .19
5.	4.3.1 4.3.2 <b>View</b> 5.1. Vie 5.1.1 5.1.2 5.1.3 5.1.4	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .16 <b>17</b> .17 .17 .17 .18 .19 .20
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu Power Configuration Password Configuration SMS Configuration E-mail Configuration Event Action Configuration Wake-on-LAN	.15 .16 <b>17</b> .17 .17 .17 .18 .19 .20 .21
5.	4.3.1 4.3.2 <b>View</b> 5.1. Vie 5.1.1 5.1.2 5.1.3 5.1.4 5.1.5 5.1.6	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .16 <b>17</b> .17 .17 .17 .18 .19 .20 .21
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.7.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu	.15 .16 <b>17</b> .17 .17 .17 .17 .17 .19 .20 .21 .22 .23
5.	4.3.1 4.3.2 <b>View</b> 5.1. Vie 5.1.1 5.1.2 5.1.3 5.1.4 5.1.5 5.1.6 5.1.6 5.1.7	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu ewPower Configuration Password Configuration SMS Configuration E-mail Configuration Event Action Configuration Wake-on-LAN Com. Port Plug And Play Setting Log Setting ModBus Communication Setting	.15 .15 .16 <b>17</b> .17 .17 .18 .20 .21 .22 .23 .24
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.7. 5.1.8. 5.2. UF	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu Password Configuration Password Configuration E-mail Configuration Event Action Configuration. Wake-on-LAN Com. Port Plug And Play Setting Log Setting. ModBus Communication Setting	.15 .15 .16 <b>17</b> .17 .17 .17 .18 .20 .21 .22 .23 .24 .25
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Via 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.6. 5.1.7. 5.1.8. 5.2. UF 5.2.1.	<ul> <li><sup>2</sup>S Navigation</li> <li><sup>3</sup>Monitored UPS Information</li> <li><sup>4</sup>UPS Remote Control &amp; Monitor</li> <li><sup>4</sup>Power Function Menu</li> <li><sup>5</sup>Power Configuration</li> <li><sup>5</sup>Password Configuration</li> <li><sup>5</sup>Password Configuration</li> <li><sup>6</sup>E-mail Configuration</li> <li><sup>6</sup>E-mail Configuration</li> <li><sup>6</sup>Event Action Configuration</li> <li><sup>6</sup>Wake-on-LAN</li> <li><sup>6</sup>Com. Port Plug And Play Setting</li> <li><sup>6</sup>Log Setting</li> <li><sup>6</sup>ModBus Communication Setting</li> <li><sup>6</sup>S Setting</li> <li><sup>6</sup>Local Shutdown.</li> </ul>	.15 .16 <b>17</b> .17 .17 .17 .18 .20 .21 .22 .23 .24 .25
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.7. 5.1.8. 5.2. UF 5.2.1. 5.2.2.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor Power Function Menu Password Configuration Password Configuration SMS Configuration E-mail Configuration Event Action Configuration Wake-on-LAN Com. Port Plug And Play Setting Log Setting ModBus Communication Setting S Setting Local Shutdown Remote Shutdown	.15 .15 .16 <b>17</b> .17 .17 .18 .19 .20 .21 .22 .23 .24 .25 .25 .27
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.6. 5.1.7. 5.1.8. 5.2. UF 5.2.1. 5.2.2. 5.2.3.	PS Navigation         Monitored UPS Information         UPS Remote Control & Monitor         Power Function Menu         PewPower Configuration         Password Configuration         SMS Configuration         E-mail Configuration         Event Action Configuration         Wake-on-LAN         Com. Port Plug And Play Setting         Log Setting         Local Shutdown         Remote Shutdown         Parameter Setting	.15 .16 .17 .17 .17 .17 .18 .20 .21 .22 .23 .24 .25 .25 .27 .28
5.	4.3.1. 4.3.2. <b>View</b> 5.1. Vio 5.1.1. 5.1.2. 5.1.3. 5.1.4. 5.1.5. 5.1.6. 5.1.7. 5.1.8. 5.2. UF 5.2.1. 5.2.2. 5.2.3. 5.2.4.	PS Navigation Monitored UPS Information UPS Remote Control & Monitor <b>Power Function Menu</b> ewPower Configuration Password Configuration E-mail Configuration E-mail Configuration Event Action Configuration Wake-on-LAN Com. Port Plug And Play Setting Log Setting Pos Setting Local Shutdown Remote Shutdown Parameter Setting	.15 .15 .16 <b>17</b> .17 .17 .18 .20 .21 .22 .23 .24 .25 .25 .27 .28 .31

5.3.1.	Real-time Control	31
5.3.2.	Scheduled On/Off	32
5.3.3.	Scheduled Battery Self-Test	33
5.4. Viev	W	34
5.4.1.	Status	34
5.4.2.	History	37
5.5. For	mat	40
5.6. Lan	iguage	40
	p	
Appendix A	: Glossary	42

## **1. ViewPower Overview**

#### 1.1. Introduction

ViewPower is UPS management software which is perfect for home users and enterprises. It can monitor and manage from one to multiple UPSs in a networked environment, either LAN or INTERNET. It can not only prevent data loss from power outage and safely shutdown systems, but also store programming data and scheduled shutdown UPSs.

#### 1.2. Structure

ViewPower includes ViewPower service, GUI (user interface) and ViewPower icon.

ViewPower service is the core of ViewPower software. It's a system program running in the back end. It will communicate with UPS, record event, notify users with events, and execute command according to users' request.

GUI is operated in Browser and communicated with back-end program. Users can monitor UPSs for real-time status, information and modify UPS setting parameters via GUI.

ViewPower icon is managing tool for ViewPower software. When ViewPower is activated, there is an orange plug icon located in taskbar. It also will display pop-up dialog for current UPS status.

**NOTE1:** Tray icon only exists under Windows OS.

**NOTE2: Supported browser:** Internet Explorer, Mozilla, Firefox, Netscape Navigator, Google chrome, Safari, Opera, Avant Browser, and Deepnet Explorer.

#### 1.3. Applications

- Monitor and manage the local UPS connected to local computer
- Monitor and manage other UPSs (with software installed) in LAN
- Remote monitor and manage other UPSs via INTERNET from remote PC (with software installed)

#### 1.4. Features

- Allows control and monitoring of multiple UPSs via LAN and INTERNET
- Real-time dynamic graphs of UPS data (voltage, frequency, load level, battery capacity)
- Safely OS shutdown and protection from data loss during power failure
- Warning notifications via audible alarm, pop-up screen, broadcast, mobile messenger, and e-mail
- Scheduled UPS on/off, battery test, programmable outlet control, and audible alarm control
- Password security protection and remote access management

## 2. ViewPower Install and Uninstall

#### 2.1. System Requirement

- 512 MB physical memory at least (1 GB is recommended)
- 1 GB hard disk space at least
- Administrator authority is required
- More than 16-bit colors and 800 x 600 or above resolution display is recommended
- TCP/IP protocol must be installed for network management
- An available communication port (RS232 serial port or USB port) is needed
- Platforms supported by software are listed below:
  - > Windows Server 2008 / 2008R2 / 2012 / 2016 (32-bit & x64-bit)
  - Windows 7 / 8 / 10 (32-bit & x64-bit)
  - Windows SBS 2011
  - Linux RedHat Enterprise AS3, AS5 (32-bit)
  - Linux RedHat Enterprise 5.x / AS6 / 8 / 9 (32-bit & x64-bit)
  - Linux Cent OS 5.x / 6.x / 7 (32-bit & x64-bit)
  - Linux Ubuntu 8.X, 9.X (32-bit)
  - Linux Ubuntu 10.x/ 12.x / 14.x / 15.x (32-bit & x64-bit)

- Linux Mint 14.x (32-bit & x64-bit)
- Linux Fedora 5
- Linux OpenSUSE 10.x/ 11.x / 12.x / 13.x (32-bit & x64-bit)
- Linux Debian 5.x (32-bit)
- Linux Debian 6.x / 8.x (32- bit & x64- bit)
- Mac OS 10.5 (32-bit)
- > Mac OS 10.6 / 10.7 / 10.8 / 10.9 / 10.10 / 10.11/10.12 / 10.13 (x64-bit)
- Supported browser versions include IE browser (not support the version older than IE10), Google Chrome, Firefox. All browsers should support html5.

#### 2.2. Software Install

Step 1 Insert the software CD into CD ROM. Will display the installation menu, or you can run autorun.exe to start the installation in CD directory. Refer to the diagram 2-1.



Diagram 2-1

**Step 2** PC will show the following screen as Diagram 2-2. Then Click "install" button to start the installation.



Diagram 2-2

**Step 1** After clicking install, it will display the installation in process. Refer to the diagram 2-3.

InstallAnywhe	re	
ځ	InstallAnywhere is preparing to install	
	40%	
	Canc	el

Diagram 2-3

Step 2 Click "Next" to proceed to the next screen as Diagram 2-4.

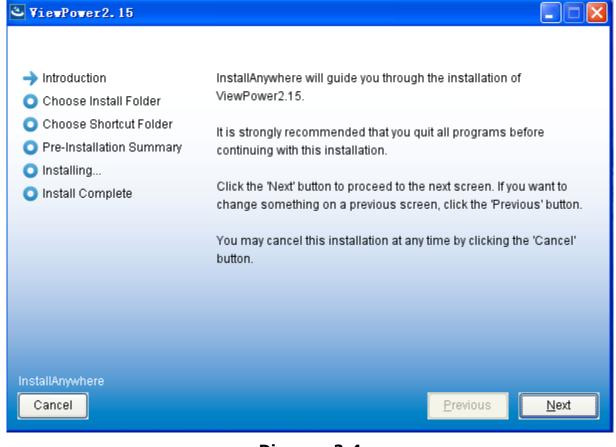


Diagram 2-4

**Step 3** Click "Choose" button to change the default folder. After choosing the installed folder, click "Next" button. Refer to the following diagram 2-5.

➡ ViewPower2.15		
<ul> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose Shortcut Folder</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please choose a destination folder for this installation. Where Would You Like to Install? C:WiewPower2.15 Restore Default Folder CI	1 <u>0</u> 05e
InstallAnywhere Cancel	Previous	<u>N</u> ext

Diagram 2-5

**Step 4** Choose the shortcut folder and click "Next" button. Refer to the following diagram 2-6.

🛎 ViewPower2.15	
<ul> <li>VievPover2. 15</li> <li>Introduction</li> <li>Choose Install Folder</li> <li>Choose Shortcut Folder</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	<ul> <li>Where would you like to create product icons?</li> <li>In a new Program Group: ViewPower2.15</li> <li>In the Start Menu</li> <li>On the Desktop</li> <li>In the Quick Launch Bar</li> <li>Other: Choose</li> </ul>
	🔿 Don' <u>t</u> create icons
	Cre <u>a</u> te Icons for All Users
InstallAnywhere Cancel	<u>Previous</u>

Diagram 2-6

Step 5 It will display the software summary before installation. Click "Install" button to start the installation and refer to Diagram 2-7.

➡ ViewPower2. 15	
✓ Introduction ✓ Choose Install Folder	Please Review the Following Before Continuing: Product Name:
✓ Choose Shortcut Folder → Pre-Installation Summary	ViewPower2.15
<ul> <li>Installing</li> <li>Install Complete</li> </ul>	Install Folder: C:WiewPower2.15
	<b>Shortcut Folder:</b> C:\Documents and Settings\Leon_nan\「开始」菜单\程序\ViewPov
	Disk Space Information (for Installation Target): Required: 387,573,694 Bytes Available: 1,066,655,744 Bytes
InstallAnywhere Cancel	Previous Install

Diagram 2-7

**Step 6** Click "Done" button to confirm the installation completely.

Refer to Diagram 2-8.

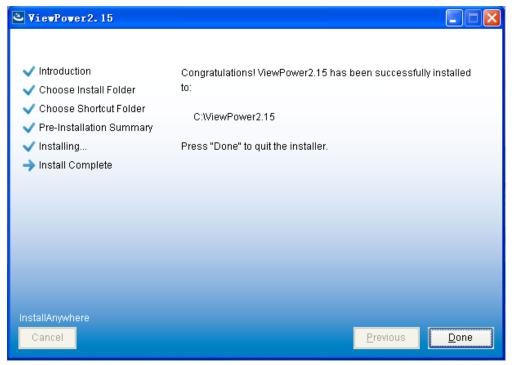


Diagram 2-8

#### 2.3. Software Uninstall

**Note:** Before uninstall software, you must stop all software programs first and then log in as "Administrator"! Otherwise it can't be uninstalled completely.

Please choose Start >> All Programs >> ViewPower >> Uninstall. Then follow the on-screen instruction to uninstall the software.

## 3. Service Tray Application

The Installer will leave a shortcut icon on your desktop. Simply click the shortcut. Then it will start the software and display an orange plug icon located in taskbar. To launch the GUI, double click the plug icon or choose "Open Monitor" by clicking right button of the mouse. Refer to below diagram.

Or, use the Start Menu method; Start >> All Programs >> ViewPower >> ViewPower





#### 3.1. Start Monitor

This software will be automatically activated when installing it as service application. At this time, users can remote monitor the UPS through web browser even though users do not login in operation system.

If service application can not be registered successfully when starting up service tray service, it will automatically activate monitoring application. If it's failed or stopped manually, simply click "Start Monitor" to activate it.

"Start Monitor" will check if monitoring application is registered as service application. If it's successfully, this software will be activated from service mode. If not, this software will be activated as monitoring mode. Users can identify the application mode from tray icon as below:

- Monitoring application is not activated successfully:
- Monitoring application is activated as service mode:  $\stackrel{\scriptstyle{\bigstar}}{\triangleleft}$
- Monitoring application is activated as application mode:

#### 3.2. Stop Monitor

Click "Stop Monitor" to stop monitoring application.

#### 3.3. Configuration

#### 3.3.1. Port Modification

If port conflict occurs, you may modify value of tray port. The default setting for tray port is listed as below (Refer to section A in Diagram 3-1):

- Web Service port: 15178
- Web service shutdown port: 8005
- AJP port: 8009

You may modify the value of tray port to any number between 0 to 65536. If value entry is used, the system will remind users to enter another number again.

**NOTE1:** Please do NOT modify port value unless port conflict occurs. This modification will affect remote monitoring website. For example, if changing web service port to 15177, then the remote monitoring website will change to:

http://xxx.xxx.xxx.15177/ViewPower

**NOTE2:** To avoid possible conflicts, please do NOT enter value with less than 4 digits.

#### 3.3.2. ViewPower Start And Exit Setting

Refer to section B in Diagram 3-1 for the detailed configuration of ViewPower start and exit setting:

- Server startup type: If "Auto" is selected, the software will automatically start up when PC is turned on. If "Manually" is selected, users have to manually start the ViewPower software.
- Exit to stop monitoring: If selected, it will completely exit software without

monitoring service. If unselected, it will continue monitoring service in the back end even though exit from software.

#### 3.3.3. Software Upgrades

Refer to section C in Diagram 3-1 for the detailed configuration for online upgrade:

- Specify the URL for update files: This is the directory to online update software. Please do not change it unless it's instructed by software vendor.
- Save files to: The directory to save files.
- Online auto-update: If selected, it will automatically check if there is any new version launched online every 1 hour.
- If applying online upgrade, please follow below for configuration:
  - 1. Select "Apply the proxy configuration";
  - 2. Enter IP address and port of server;
  - 3. If ID identification is requested, select "Enable authentication" and enter User Name and Password.
- Connection test: Click this button to test if all configurations are set up well.

5 Configuration	
Web service port	15178
Web service shutdown port	8005 A
AJP port	8009
Server startup type: 💿 Auto	omatic 🔵 Manual 🛛 🛛 🖥
Exit to stop monitoring.	D
Specify the URL for update file	es =-download.com/viewpower/windowsupdate.zip
Save files	to C:\Program Files\ViewPower2.10\UpgradeFiles Browse
Online auto-update	c
Apply the proxy configura	tion
IP	
Port	
Enable authentica	tion
User nar	
Passwo	
Connection test	
	Apply Cancel

Diagram 3-1

#### 3.3.4. Configuration Saved

Click "Apply" button to save all changes in Configuration page. Click "Cancel" to stop the change.

### 3.4. Software Update

Software update includes online update and manually update:

• Online Update:

Click "Online Update" to search the latest software version. If there is new version, it will automatically download and update. Refer to Diagram 3-2:

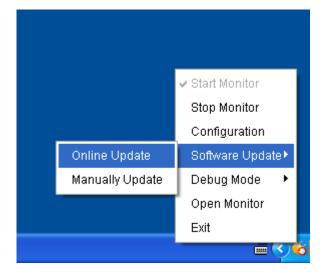


Diagram 3-2

• Manually Update:

Users can manually update the software. Follow below steps:

1. Click "Manually Update" from function menu. Refer to Diagram 3-3.

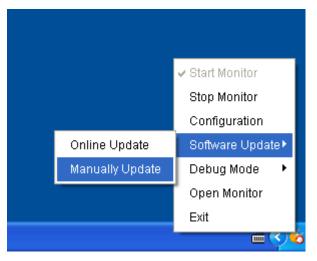


Diagram 3-3

2. Click "Browse" to choose file directory. And then click "Upgrade" to upgrade software. Refer to Diagram 3-4.

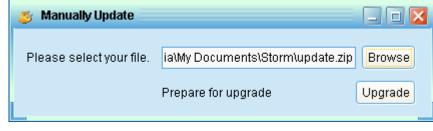


Diagram 3-4

#### 3.5. Debug Mode

If debug mode is activated, the software will record process of UPS searching and communication result into log so that it can be analyzed when communication failure occurs.

• Start: Click "Start" to activate debug mode. Refer to Diagram 3-5. Click "Stop" to stop recording. Refer to Diagram 3-6.

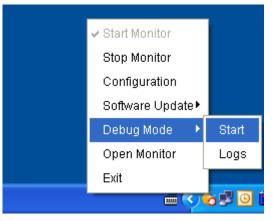


Diagram 3-5

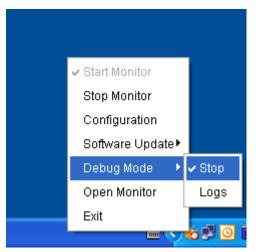


Diagram 3-6

• Logs: Click "Logs" to check the log records. Refer to Diagram 3-7.

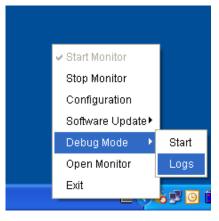


Diagram 3-7

#### 3.6. Open Monitor

Click "Open Monitor" to open monitor page.

#### 3.7. Message Board

Users can check message board for event list. Refer to Diagram 3-8:

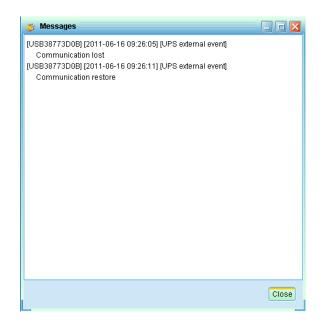
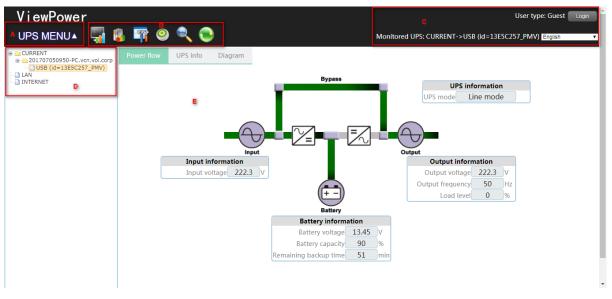


Diagram 3-8

#### 3.8. Exit

Click "Exit" to exist service application

## 4. ViewPower GUI Interface



The GUI has five sections as marked in the illustration below:

#### Diagram 4-1

- **A. Function Menu** offers complete tool-set for navigating and setting the GUI.
- **B. Shortcut Menu** provides short cuts to more commonly used functions.
- **C. Current Monitoring Information** displays user ID and monitored UPS name.
- D. UPS Navigation indicates all UPS locations in networked environment.

**E. Main Window** contains information and/or controls that change with each function menu or shortcut menu selected.

#### 4.1. Refresh

Click the Refresh icon to refresh screen (Refer to Diagram 4-2).

ViewPower UPS MENU 🔺 🌄 🔋	🖙 🛛 🔍 😌	User type: Guest Login Amonitored UPS: USB (id=13E5C257_PMV) English
CURRENT     201707050950-PC.vcn.vol.corp	Power flow UPS info Diagram	
LOUSB (id=13E5C257_PMV)	Вураз	UPS information UPS mode Line mode
	Input Input information	Output Output information
	Input voltage 222.3 V	Output voltage 222.3 V
		Output frequency 50 Hz
	Batter	Load level 0 %
	Battery info	
	Battery voltag	
	Battery capaci Remaining backup tin	

Diagram 4-2

#### 4.2. UPS Searching

**Step 1** Click the UPS Searching icon Click the UPS Searching icon

**Step 2** Click the UPS search icon (Refer to Diagram 4-3).

ViewPower	User type: Guest Login
UPS MENU 🔺 🌄 🚦	🛔 🃪 🥝 🔍 💿 Monitored UPS: USB (id=13E5C257_PMV) English 🔻
CURRENT 201707090950-PC.vcn.vol.corp 20190 (d=13E5C257_PMV) LAN INTERNET	UPS searching Auto LAN search Select network: 192.168.107.42      Search Manual Internet search      Precise search      Related search
	Internet IP

#### Diagram 4-3

 Auto LAN search: Select the web segment from dropdown menu, and then click the "Search" button as required.

#### • Manual Internet search:

1. Precise search: Enter designated IP address, and then click the "Search"

button for searching.

 Related search: Enter IP address ranging, and then click "Search" button to start the searching.

Note: The duration of searching in related search is different based on the provided range of IP addresses.

#### 4.3. UPS Navigation

It displays all UPSs found through UPS searching function.

CURRENT means physically connected local PC and UPS device

LAN means connected PCs and UPS devices in local area network

INTERNET means connected PCs and UPS devices in wide area network

**NOTE**: The definition of LAN and INTERNET depends on the local PC location.

#### 4.3.1. Monitored UPS Information

Select one UPS from UPS navigation and it will display complete UPS information in main window. Refer to Diagram 4-4.

- UPS rated information includes rated VA, rated output voltage, rated output frequency, rated output current and rated battery voltage.
- Battery information includes battery group numbers.
- Purchasing information means UPS purchasing date, battery purchasing date, warranty for UPS and warranty for battery.

ViewPower UPS MENU 🔺 🌄 🗯	I 🖙 🛯 🔍 😒	User type: Administrator Logout Change Password Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English
CURRENT	Monitored UPS information	
USB (id=13E5C257_PMV)	Basic information	Purchase information
	UPS type: line-interactive	Purchase date of the battery: 2018-11-01
	Input phase/Output phase: 1/1 Serial number: 000000000	UPS Warranty: 0 Year(s)
		Batteries Warranty: 0 Year(s)
		Battery lifecycle: 0 Month(s)
		Remind me when to change the battery: Disable
		UPS P/N: 2345678987654
	Battery information	UPS rated information
		Rated VA: VA
		Rated output voltage: 240.0 V

#### Diagram 4-4

**NOTE**: This display screen may be different for different types of UPS.

#### **4.3.2. UPS Remote Control & Monitor**

If you want to control and set up the remote UPS, you must log in as an administrator. There are two ways to remote monitor UPS:

Method one: Double click any UPS from LAN or INTERNET and it will pop up a message window to confirm the monitoring action. Refer to below diagram 4-5.

ViewPower			User type: Administrator Logout Change Password
UPS MENU 🔺 📮	🖥 🖏 🖙 🥹 🕯	2, 🕑	Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English
CURRENT CURRENT USB (id=135C257_PMV) LAN INTERNET ISD 192.168.1.107 USB (id=7FBBD92_PMV)	Power flow UPS in	ifo Diagram	Bypass UPS information UPS mode Standby mode UPS temp. 24.8 °C UPS

Diagram 4-5

Select "Yes" and it will open another new window to display remote UPS information. Refer to Diagram 4-6.

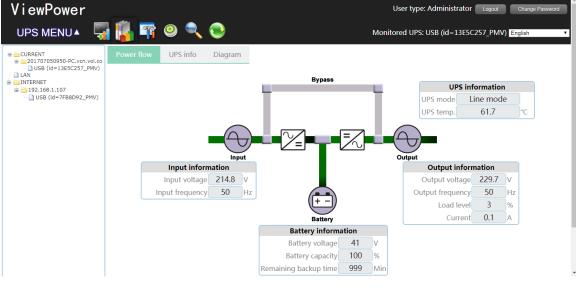


Diagram 4-6

**NOTE**: This display screen may be different for different types of UPS.

Method 2: Open browser and enter the remote PC IP address and 15178. For example, remote PC IP address is 202.16.53.142.
 Please enter <a href="http://202.16.53.142:15178/ViewPower">http://202.16.53.142:15178/ViewPower</a> in browser. Refer to Diagram 4-7

http://202.16.53.142:15178/ViewPower

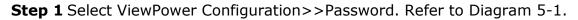
#### Diagram 4-7

#### **5. ViewPower Function Menu**

#### 5.1. ViewPower Configuration

#### 5.1.1. Password Configuration

It's password configuration for administrator only. Before operating and configuring the software, please login first and modify the password. The default password is "**administrator**" at first log in. Users can only browse UPS status and information as Guest status without login as an Administrator. Guest can NOT control or executive any setting.



ViewPower		User type: Administrator Logout Change Password
UPS MENU 🔺 🌄 🖁	🛔 🖙 🙁 🔍 🚭	Monitored UPS: USB (id=13E5C257_PMV) English
■ <u>CURRENT</u> ■ <u>CUI707050950-PC.vcn.vol.corp</u> _ USB (id=13E5C257_PMV) _ LAN _ INTERNET	Battery capacity S	Load level 0 %

Diagram 5-1

Step 2 Enter old password, new password, and retype new password in confirm password column to modify password for administrator. (The password should be at least 6 digits) Then click "Apply" button to successfully modify password

for administrator.

**NOTE1:** Simply click "Login" button on the top right corner to log in the software. **NOTE2:** If password is forgotten, it's necessary to re-install the software.

#### 5.1.2. SMS Configuration

It's for entering SMS receiver list. In the event of an alarm condition occurring, a message about UPS status will be sent to the specified users via mobile phone. For the event receiving list, please configure in "Event Action" column (refer to section 5-1-4).

**Step 1** Choose ViewPower Configuration >> SMS. Refer to Diagram 5-2.

ViewPower	User type: Administrator Logout Change Password
UPS MENU 🔺 🌄 🌇 📅 🧐 🔍 😒	Monitored UPS: USB (id=13E5C257_PMV) English
<ul> <li>Configuration &gt;&gt; SMS</li> </ul>	
Com. port settings	Phone No. Add Delete
Com. port: COM1 • Refresh	No format:Please add the International telephone code before your PhoneNO
Baud rate: 2400 •	
PDU mode 🗏	
Note Click "Test" button to send a test message	Test Apply

#### Diagram 5-2

- **Step 2** Select communication port and baud rate.
- Step 3 Enter mobile phone numbers in "Phone no." column and click "Add" button to add phone no. in Receivers List. To delete numbers, simply select phone no. from "Receivers list" and click "Delete".
- Step 4 Click "Apply" button to save all changes. The "Test" button can be used to send test SMS to confirm the correct operation. If all parameters are set up correctly, system will send a test message to all receivers and pop up a successful message. (Refer to Diagram 5-3)

ViewPower upsmenu 🔺 🌄 🐞 🌇 🥯 🔍 📀	User type: Administrator Logaut Change Password Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English
<ul> <li>Configuration &gt;&gt; SMS</li> </ul>	
Com. port settings	Phone No. 13924607394 Add Delete
Com. port: COM1 • Refresh SMS Test	No format:Please add the International telephone code before your PhoneNO
Baud rate: 2400 V	ne SMS was sent
PDU mode 🗎	
Note Click "Test" button to send a test message	Test Apply

Diagram 5-3

**NOTE:** It's required to plug-in GSM Modem if sending SMS to mobile phone.

#### 5.1.3. E-mail Configuration

This feature enables the configuration to send alarm mail by SMTP server. For the event receiving list, please configure in "Event Action" column (refer to section 5.1.4).

To use this function, the e-mail service must be correctly configured in the computer. All values in this function page are default empty. This action can't be executed without the SMTP information, e-mail account and password. Besides, the sender account should be allowed for SMTP/POP3 forwarding.

ViewPov		User type: Administrator Logout	Change Password
UPS MEN	UA 🖫 🖺 🌇 🥯 🔍 🕞	Monitored UPS: USB (id=13E5C257_PMV)	English
	<ul> <li>Configuration &gt;&gt; E-mail</li> </ul>		
	SMTP server settings	E-mail Add Delete	
	SMTP server: smtp.test.com		
	<sup>○</sup> None <sup>○</sup> SSL <sup>○</sup> TLS	email_reciver@test.com	
	Port: 25		
	Exchange server		
	Send from:emailaddress@test.com		
	Username: test		
	Password: •••••		
	SMTP authentication required		
	Note Click "Test" button to send a test message	Apply Test	

**Step 1** Select ViewPower Configuration >> E-mail. Refer to Diagram 5-4.

## Diagram 5-4

- Step 2 Enter SMTP server, SMTP port, Send from E-mail address, User name and password. Click checkbox of password authentication needed for password verify.
  - **NOTE:** If using Exchange Server for mailbox system, it's required to configure Exchange server domain name in SMTP sever and select "Exchange server". Then, click "Apply" button.
- Step 3 Enter correct e-mail accounts in E-mail column. Then, click "Add" to add into receivers list. To delete e-mail account, simply select accounts from Receivers list and click "Delete" button.
- Step 4 Click "Apply" to save all changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are successfully sent to specific recipients, it will pop up a successful message on operated PC. Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting.

#### 5.1.4. Event Action Configuration

It's to configure response actions for UPS events. Software provides six response actions after events occur.

**1. Event record:** It will record event to data log in software after events occur. This function is default selected.

**2. Computer alarm:** Computer will beep to remind users after events occur. This function is only available for Windows OS.

**3. Warning dialog (local):** It will pop up a message dialog around the software orange plug icon in taskbar after events occur. This function is default selected.

**4. Broadcast:** It will send the event message to all PCs with software installed in LAN network.

**5. SMS:** It will send the event message to specific mobile phone numbers after events occur.

**6. E-mail:** It will send the event e-mail to assigned e-mail accounts after events occur.

	n >> Event actions		User type: Administrator Logout Monitored UPS: USB (id=13E5C257_PMV)
د د	Event	o Type ∳	Actions
A	AC failure	Input event	Write the event to the log
0	40		Trigger the computer alarm
	AC recovery	Input event	Pop-up a warning dialogue (local system only)
0	Battery self-test cancelled	Battery event	Broadcast
0	Battery self-test completed	Battery event	
A	Battery self-test failure	Battery event	
0	Battery self-test is going to start	Battery event	
0	Battery self-test passed	Battery event	Phone No.
0	Communication established	UPS external event	E-mail
<b>A</b>	Communication lost	UPS external event	Apply Default

**Step 1** Select ViewPower Configuration >> Event Action. Refer to Diagram 5-5.

#### Diagram 5-5

**NOTE**: The displayed event list may be different for different types of UPSs.

- **Step 2** Select a specific event from "Event List" and then action method page will be active on the right-hand column.
- **Step 3** Select desired action methods by clicking checkbox.
- **Step 4** Click "Apply" button to save all configurations.

**NOTE1:** When editing receiver list in SMS or e-mail columns, it's necessary to refresh the event action page to reload the updated receiver list.

**NOTE2:** It is requested to have following requirements for successful broadcast.

- 1. All receiving PCs must have installed software.
- 2. It's only able to send the message to the PCs in LAN found in UPS Navigation.

#### 5.1.5. Wake-on-LAN

It will manage the list for wake on LAN and test the function.

After adding MAC address of remote PCs into MAC list, it will allow remote control the PCs. However, it's also required to have hardware support for remote PCs to implement this function.

**Step 1** Select ViewPower Configuration >> Wake-on-LAN. Refer to Diagram 5-6.

ViewPov UPS MEN		r 🙁 🔍 😍		User type: Administrator Logout Monitored UPS: USB (id=13E5C257_PMV	Change Password
	<ul> <li>Configuration &gt;&gt;</li> </ul>	Wake-on-LAN			
	MAC address		01-22-2B-34-C1-02	Add Delete Wake	
	MAC list				
		01-22-2B-34-C1-02			

**Step 2** Add: Enter MAC address and click "Add" button to add in MAC List.

Delete: Select one from list and click "Delete" button.

Test: Select one from list and click "Test" button. Then, it will execute Wake-on-LAN test.

**NOTE:** The example of MAC address format: 01-1F-C6-C7-E0-08.

#### 5.1.6. Com. Port Plug And Play Setting

To real-time monitor UPS device, the software will scan each com. port anytime. In this way, it will occupy com. port. This function will release some com. ports which not connect to UPS devices. To avoid any improper operation, in-used com. ports will display in disabled grey icons. Users can select "Enable" or "Disable" to control whether to scan com. port or not. If it's allowed to scan, it will be listed in screen. Then, users can select "Allow scanned" or "forbid scanned" to re-scan or release com. ports based on their requirements.

**Step 1:** Select ViewPower configuration>>Com. port plug and play setting. Refer to Diagram 5-7.

ViewF UPS M	Power ENUA 🐺 [ 🙀 🖙 🥯 🖣	2 😒	User type: Administrator Logout Change Passw Monitored UPS: USB (id=13E5C257_PMV) English	ord
	<ul> <li>Configuration &gt;&gt; Com. port plug</li> </ul>	g and play setting		
	Scan com. port Enable Disable			
		COM1 Allow scanned Forbid scanned		
		COM2 Allow scanned Forbid scanned		
			Refresh	

**Step 2:** Click "Refresh" to reload the status of com. ports.

**Step 3:** Click "Forbid scanned" to stop scanning on this com. port. Click "Allow scanned" to start scanning on this com. port.

#### 5.1.7. Log Setting

Users can set up Record Interval, The max. number of logs for historical data and The max. number of logs for historical events according to real situation.

Record interval: indicated how long to record data. The setting range for "Record internal" is 30~600 seconds. It will effect history data displayed under View -> History. The max. number of logs for historical data: indicated how many data logs will be saved in history. The setting range is 100000~100000000. It will effect displayed data under View -> History.

The max. number of logs for history events: indicated how many event logs will be saved in history. The setting rang is 100000~100000000. It will effect displayed data under View -> Event log.

**Step 1** Select ViewPower configuration>>Log setting. Refer to Diagram 5-8.

ViewPov UPS MEN			Administrator Logout	Change Password
	<ul> <li>Configuration &gt;&gt; Log Settings</li> </ul>			
	Record interval	60	Sec.	
	The max. number of logs for historical data	100001	(>100000)	
	The max. number of logs for historical events	100001	(>100000)	
			Apply Default	

- **Step 2** Enter value in the column.
- **Step 3** Click "Apply" button to save all settings.
- **Step 4** Click "Default" button to recover the default setting.

#### 5.1.8. ModBus Communication Setting

It will display all connected PCs through ModBus.

Step 1 Select ViewPower configuration>> ModBus Communication Setting Refer to Diagram 5-9.

ViewP UPS MI	Power ENUA 🐺 👔 🌇 🥹 🔍	. 😌		Moni	User type: Admini itored UPS: USB (id	istrator Logout =13E5C257_PMV)	Change Password English
	<ul> <li>Configuration &gt;&gt; ModBus commun</li> </ul>	ication setting					
	Modbus device connected to com. Port	UPS ID	Baud rate	Data Bit	Stop Bit	Parity	
	СОМ1 •	1	4800 •	8 •	1 •	NONE	
						Apply	
	Old password	New pas	reword		Confirm passwo	rd	
		New pas	SWOID				
					Apply	Reset	

#### Diagram 5-9

**Step 2** Password setting/change menu for ModBus.

NOTE: Some UPS models are requested to have password control in unit.

Therefore, real-time control will be only available when the ModBus password is the same to the UPS password.

Step 3 Com. port setting:

The default ID for nominated com. port is 1.

Selectable baud rates are 1200, 2400, 4800, 9600 and 19200. The default setting is 4800.

Selectable data bit is 7 and 8. The default setting is 8.

Selectable stop bit is 1 and 2. The default setting is 1.

Supported parity is ODD parity, even parity and NONE. The default setting is NONE.

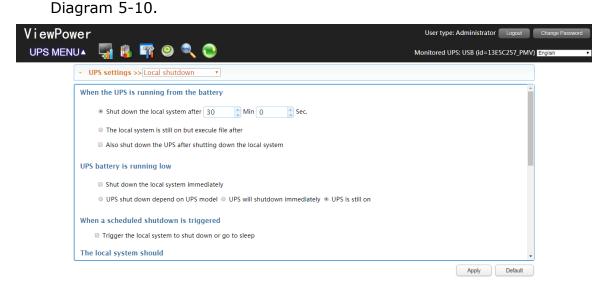
NOTE: This function is only available for the UPS with ModBus communication port.

#### 5.2. UPS Setting

#### 5.2.1. Local Shutdown

It's shutdown setting for local PC which is directly connected to monitored UPS with communication port. This configuration enables system shutdown of local PC or to remote shut down PCs which are powered by monitored UPS.

**Step 1** Select UPS Setting >> Local Shutdown or click shortcut icon  $\square$ . Refer to



#### Diagram 5-10

**NOTE**: This screen may be different for different types of UPSs.

- Step 2 Select shutdown conditions and power-off options, set delay time to shutdown system.
- **Step 3** Enter time for pop-up dialog before shutdown and warning interval in Warning Dialog Setting area.

**Step 4** Click "Apply" button to save all data.

**NOTE:** Click "Default" button to recover the default setting.

#### **Conditions:**

- When the UPS is running from battery, shut down local system after xx min xx sec: When clicking the checkbox, local PC will start to shut down after monitored UPS works on battery mode for xx min xx sec time. The maximum setting number for minutes is 999 and for seconds is 59.
- Also shut down UPS after shutting down the local system: When clicking this checkbox, monitored UPS will shut down after local system shuts down. The UPS shutdown time will be later than system complete shutdown time. The default setting is clicked. But users can choose to shut down the system without shutting down the monitored UPS by unclicking this checkbox.
- When UPS battery is running low, shut down the local system immediately: When clicking this checkbox, local PC will shut down when monitored UPS battery is running low.
  - UPS shut down based on UPS model: Only ≥3KVA standard UPS model will automatically shut down. However, long-run models and UPSs with above 5KVA will remain on.
  - UPS will shutdown immediately: UPS will shut down immediately no matter what kind of UPSs.
  - 3. UPS is still on: UPS will remain on until battery is running out.
- Remote shutdown: When clicking the checkbox, local PC accepts shutdown command from designated remote PCs. Please enter IP address of remote PCs in blank column and click "Add" button to add into list.
- When a scheduled shutdown is triggered, local system will shut down or go to sleep: When clicking this checkbox, the local system will shut down or go to

sleep before monitored UPS is scheduled to power off. The default setting is clicked. Please also refer to section 5.3.2. Schedule On/Off for UPS scheduled shutdown setting.

- Shutdown: When clicking the checkbox, the selected system will shut down.
   The default setting is clicked.
- ✓ Go to sleep: When clicking the checkbox, selected system will suspend the system instead of a normal shutdown. But this function is only supported by Windows 2000 or higher on supported hardware.

**Time to wait before shutting down the local system:** Enter the waiting time to shut down the operating system. The value range is from 1 to 99 minutes.

File to execute when shutting down: Enter the path of execute file.

Maximum file execute time: Enter the waiting time to execute file.

#### Warning Dialog Setting:

- Pop-up dialog before shutdown: Timer setting for pop-up warning dialog displayed in local PC. Local PC will pop up a warning dialog before system starts to shut down. The range is from 1 to 999 seconds.
- Warn me again every x sec.: Reminding dialog interval setting. This setting is also applied for UPS shutdown because of power failure. The range is from 1 to 999 seconds.

#### 5.2.2. Remote Shutdown

This configuration is to remote shut down specific PCs which are powered by monitored UPS.

**Step 1** Select UPS Setting >> Remote Shutdown. Refer to Diagram 5-11.

ViewPowe	er	User type: Administrator Logout	Change Password
UPS MENU	🔺 🖏 🐞 📪 🥝 🔍 💿	Monitored UPS: USB (id=13E5C257_PMV)	English
	UPS settings >> Remote shutdown     T		
	Conditions When the UPS is running from the battery Shut down the remote system after 10 C Min 0 Sec. Immediately shut down the following remote systems when the battery is running low Enabled SSH shutdown User name: Password: Remote system IP: 192.168.0.1	ŕ	
	Remote system IP Username Password	Enabled SSH shutdown Add Delete	
		Apply Default	

- **Step 2** Select remote shutdown conditions.
- **Step 3** Add/Delete remote system IP address.
- **Step 4** Click "Apply" button to save all data.

**NOTE:** Click "Default" button to recover the default setting.

#### **Conditions:**

- When the UPS is running from battery, shut down the remote systems after xx min xx sec: When clicking the checkbox, remote systems which are powered by monitored UPS will shut down after monitored UPS running on battery mode for xx min xx sec. The maximum setting number for minutes is 999, and for seconds is 59.
- Immediately shut down the following remote systems when the battery is running low: When clicking the checkbox, remote systems which are powered by monitored UPS will shut down when monitored UPS is at low battery level.

#### 5.2.3. Parameter Setting

Some UPS functions can be set and changed via software. Parameter setting includes backup time setting for P1, battery number setting, voltage and frequency range setting for bypass mode, and voltage range setting for ECO mode.

**Step 1** Select UPS Setting >> Parameter Setting. Refer to Diagram 5-12.

ViewPower			User type: Administra	tor Logout Change Passwo
UPS MENU 🔺 🌄 🌠 🛱 🥹	2 📀	Monitored UPS:	CURRENT->USB (id=1	04F9384_P01) English
<ul> <li>UPS settings &gt;&gt; Parameters</li> </ul>	setting			
UPS alarm	Enable Disa	le Green power function	Enable Disable	
Alarm at bypass mode	Enable Disa	Cold start	Enable Disable	
Alarm at battery mode	Enable Disa	Bypass not allowed	Enable Disable	
Auto reboot	Enable Disa	Battery deep-discharge protection	Enable Disable	
Bypass when UPS is off	Enable Disa	Site fault detection	Enable Disable	
Converter mode	Enable Disa	P1 programmable outlet control(battery mode)	Enable Disable	
ECO mode	Enable Disa	P2 programmable outlet control(battery mode)	Enable Disable	
Advanced ECO mode	Enable Disa	Limited runtime on battery mode	Enable Disable	
				Default
▼ Voltage and frequency rang	e for bypass mo	de		
Maximum voltage	64 🗘 V	Apply Minimum voltage 170	🗘 V 🛛 Apply	
Maximum frequency 5		Apply Minimum frequency 47	Hz Apply	
▼ Battery numbers setting				
Numbers in parallel 4	2 Appl			
▼ Voltage range for ECO mode	e			
Maximum voltage 24	2 🗘 V	Apply Minimum voltage 218	V Apply	

Diagram 5-12

**NOTE**: This screen may be different for different types of UPSs.

- Step 2 Select the functions by clicking "Enable" or "Disable" button. Or change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
- **Step 3** Click "Apply" button to save the settings. Each function setting is saved by clicking each "Apply" button.

**NOTE1:** Any functions which are not supported by UPS will not be able to access. **NOTE2:** Click "Default" button to recover the default setting.

- UPS alarm: If enabled, UPS alarm will be activated. Vice versa.
- Alarm at bypass mode: If enabled, UPS alarms when it's working at bypass mode. Vice versa.
- Alarm at battery mode: If disabled, UPS will not alarm when it's working at battery mode. Vice versa.
- Auto reboot: If enabled, UPS will auto restart when AC is recovering. Vice versa.
- Bypass when UPS is off: If enabled, AC power will directly provide power to connected devices when UPS is off. Vice versa.
- Converter mode: If enabled, the UPS will operate in converter mode. Vice versa.

- ECO mode: If enabled, the UPS will operate in ECO mode when input voltage is within acceptable range. Vice versa.
- Advanced ECO mode: If enabled, the UPS will operate in advanced ECO mode when input voltage is within acceptable range. Vice versa.
- Green power function: If enabled, the UPS will cut off if detecting no load connected. Vice verse.
- Cold start: If disabled, the UPS can be turned on only when AC is normally connected to UPS. Vice versa.
- Bypass not allowed: If enabled, the UPS will not transfer to bypass mode under any conditions. If disabled, the UPS will be allowed to transfer to bypass mode according to UPS internal setting.
- Battery deep-discharge protection: If enabled, the monitored UPS shutdown in accordance with the condition of battery and load on battery mode to protect battery. Vice versa.
- Site fault detection: If enabled, the monitored UPS will beep when the input neutral and hot wires are reversed. Vice versa.
- P1 Programmable outlet control (battery mode): If enabled, when UPS is running at battery mode, it will cut off P1 outlets after backup setting time arrive. If disabled, UPS will provide continuous power to P1 outlets until the battery is running out.
- Limited runtime on battery mode: If enabled, users can set limited backup time for P1 outlets when UPS is on battery mode.
- Battery numbers setting:
  - > Numbers in parallel: set battery numbers in parallel.
- Voltage and frequency range for bypass mode: Set acceptable voltage and frequency range in bypass mode.
  - Maximum and minimum voltage: When UPS is on bypass mode and input voltage is out of setting range, UPS will enter battery mode.
  - Maximum and minimum frequency: When UPS is on bypass mode and input frequency is out of setting range, UPS will enter battery mode.

• Voltage range for ECO mode: Set acceptable voltage range for ECO mode.

#### **5.2.4.** Purchasing Information

Users can enter UPS purchasing date, battery purchasing date, UPS warranty time, battery warranty time, battery lifecycle, battery replacement reminder.

**Step 1** Select UPS Setting >> Purchasing Information. Refer to Diagram 5-13.

ViewPow UPS MEN	ver U* 📲 🔒 🃪 🞱 🔍 😒	User type: Administrator Logout Change Password Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English
	• UPS settings >> Purchase information ▼	
	UPS P/N	2345678987654
	UPS purchasing date	2018-11-01
	UPS Warranty	0
	Purchase date of the battery	2018-11-01
	Batteries Warranty	0 🔭 Year(s)
	Battery lifecycle	0 The month (s)
	Remi	ind me when to change the battery
		Apply

#### Diagram 5-13

- **Step 2** Please fill out purchasing information.
- **Step 3** Click "Apply" button to save all data.

#### 5.3. Control

#### 5.3.1. Real-time Control

**Step 1** Select Control >> Real-time Control or click shortcut icon<sup>2</sup>. Refer to Diagram 5-14.

ViewP UPS ME		. 🔍 😋	User type: Administrator Logout	Change Password
	Control >> Real-time control	I		
	Alarm control ON OFF Battery self-test		Turn UPS on/off ON OFF Outlet control	
	10-second self-test Deep discharge test Minute self-test 0,2	StartCancelStartCancel	P1 Time for power-on 0   Min Start 0 means immediate on Time for power-off 0   Min Start 0 means immediate off	

**NOTE**: This screen may be different for different types of UPSs.

**Step 2** Choose real-time control function by clicking "Start" button on each function section.

You can real-time control the UPS by executing following operation:

- Alarm control: Click "On" to turn on the UPS alarm and "Off" to turn off the UPS alarm immediately.
- Turn UPS On/Off: Click "On" to turn on the UPS and "Off" to turn off the UPS immediately.
- Battery Self-Test: Software offers three types of battery self-test: 10-second self-test, deep discharge test, and self-defined test. If self-defined test is selected, please also enter the test duration. Simply clicking "Start" button from each type. It will execute the self-test immediately.
- Outlet Control: It will cut off P1 outlets when setting time arrives. When entering 0 in timer column and click "Start" button, it will cut off outlets immediately when UPS works in battery mode.

#### 5.3.2. Scheduled On/Off

Scheduled UPS on/off can be executed once, daily, weekly. In "Scheduled On/Off Setting", users can set up UPS on/off timer. It is recommended to set only one action in the same time. If multiple actions have been set at the same time, some of these actions may be ignored. Any actions which are not supported by the UPS will be ignored. **NOTE:** Be sure to click checkbox of "shutdown trigger" in section 5.2.1 Local shutdown. Otherwise, this schedule on/off can't be executed well.

ViewPow	wer	User type: Administrator Logout Change Passwor	đ
UPS MEN	UA 🖫 🐞 🌇 🥯 🔍 📎	Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English	•
	Control >> Scheduled on/off		
	Cycle UPS off UPS on Operated UPS	• Once	
	Once 2018-11-01 10:38 2018-11-01 11:47 USB13E5C257	Power off at 2018/11/01 10:38 Power on at 2018/11/01 11:47	
		Daily     Weekly     Add Delete	

**Step 1** Select "Control" >> Scheduled On/Off. Refer to Diagram 5-15.

#### Diagram 5-15

**Step 2** Set frequency and on/off timer on the right column.

#### NOTE: Rules for setting time.

**Daily schedule** – Power-off time should be earlier than power-on time. It is only applied to set power-on and power-off time within the same day.

**Weekly schedule** – Power-off time should be earlier than power-on time. It is only applied to set power-on and power-off time within the same week.

**Step 3:** Click "Add" to add task. If task is successfully set, it will display on the task table on the left-hand side. Select specific task and click "Delete" button to delete the task.

#### 5.3.3. Scheduled Battery Self-Test

Scheduled battery self-test can be executed once, daily, weekly, or monthly. In the window of "Scheduled Battery Self-Test Setting", users can choose time parameters. It is recommended to set only one action in the same time. If multiple actions have been set at the same time, some of these actions may be ignored. Any actions which are not supported by the UPS will be ignored.

**Step 1** Select Control >> Battery Self-Test. Refer to Diagram 5-16.

ViewPow			<b>.</b>			User type: Administrator Logout	Change Password
UPS MEN	JA Ę	al 🐚 🗎	r 🥹 🔍	、 🤍		Monitored UPS: CURRENT->USB (id=13E5C257_PM	V) English 🔻
	• Cont	rol >> Sched	uled battery se	elf-test 🔻			
	Cycle ∉	o Date ∳	Start time 🝦	operate ∳	Operated UPS ↓	Frequency	
	Once	2018-11-01	12:50	10-second self-test	USB13E5C257	Once Daily	
						Weekly Monthly	
						Date	
						2018-11-01	
						Start time	
						12:50	
						Method	
						10-second self-test	
						Add Delete	

**Step 2** Select frequency, method and time parameters.

There are three self-test methods:

- 10-second self-test: Battery will discharge for 10 seconds.
- Self-test: Users can set battery discharge time for self-test.
- Deep test: This test will let battery discharge until it's in low battery level.
- Step 3 Click "Add" to add task. If task is successfully set, it will display on the task table on the left-hand side. Select specific task and click "Delete" button to delete the task.

#### 5.4. View

#### 5.4.1. Status

#### (i) Power Flow

In the Power Flow window, it's shown the internal dynamic working scheme of the UPS. Green/black flow means OK and working. Grey bar means that the object is present but not in use at the moment. There are four information blocks to display details for input, output, UPS and battery information.

- Input information includes input voltage and input frequency.
- Output information includes output voltage, output frequency, load level, and output current.

- UPS information includes UPS mode, UPS temperature.
- Battery information includes battery voltage and battery capacity.

Select View >> Status >> Power Flow or click shortcut icon  $\square$ . Refer to Diagram 5-17.

ViewPower UPSMENU 🔺 🌄 i	🔹 📪 🕲 🔍 🚭	User type: Administrator Logout Change Password Monitored UPS: CURRENT->USB (id=13E5C257_PMV) English
CURRENT CURENT CURE	Power flow UPS info Diagram	Bypese       UPS information         UPS mode       Line mode         UPS mode       Line mode         Output       Output         Output voltage       226.5 V         Dutput frequency       50 Hz         Load level       0 %

#### Diagram5-17

**NOTE**: This screen may be different for different types of UPSs.

#### (ii) UPS Info

Select View >> Status >> UPS Info. Refer to Diagram 5-18.

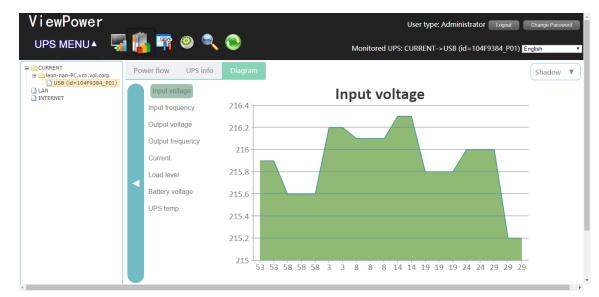
ViewPower		Us	er type: Administrator Logout Change Password
UPS MENU 🔺 🌄 🖡	🛔 📪 🙁 🔍 💽 🛛	Monitored UPS: CI	URRENT->USB (id=13E5C257_PMV) English
URRENT	Power flow UPS into Dia		

#### Diagram 5-18

**NOTE**: This screen may be different for different types of UPSs. In the UPS Info window, it's shown detailed UPS real-time information.

#### (iii) Diagram

In the Diagram window, it's shown real-time monitored UPS data including voltage, frequency, load, battery, temperature information in diagram.



**Step 1** Select View >> Status >> Diagram. Refer to Diagram 5-19.

#### Diagram 5-19

**NOTE**: This screen may be different for different types of UPSs.

**Step 2** Select monitoring parameters on left-hand tab to switch diagram display.

- Input voltage monitoring shows any change for input voltage.
- Output voltage monitoring shows any change for output voltage.
- Input frequency monitoring shows any change for input frequency
- Output frequency monitoring shows any change for output frequency.
- Load level monitoring shows any change for connected load level
- Battery capacity monitoring shows any change for connected battery capacity.
- UPS temp. Monitoring shows any temperature change for monitored UPS.
- Step 3 Time interval setting, It displays real-time data changes in certain interval. To change time interval in X-axis of diagram, simply click up-down arrows and then click "Refresh" icon to get the updated diagram with new setting interval. Refer to Diagram 5-19

#### 5.4.2. History

(i) Event Log

In the Event Log window, it's shown all history events. Users can analyze the history data and improve the current electricity environment according to history data.

**Step 1** Select View >> History >> Event Log. Refer to Diagram 5-20.

ViewPower UPS MENU 🔺 🌄 🔹 🕻	r 🔍 🔍 📀		User type: Administrator Logout Change Passa tored UPS: USB (id=13E5C257_PMV) English
Event log Event stat	istics Data Diagram		
UPS	USB id=(13E5C257) • PMV	Time period 2018-11-01 20:	18-11-01
		Browse Delet	Delete all Export
			Search
↓ D ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Date ∳	¢	<b>Type</b> ∲
1	2018-11-01 09:12:02	Communication established	UPS external event
ID Level	Date	Event	Туре

#### Diagram 5-20

- **Step 2** Select UPS from com. port list. Users still can retrieve old data saved in the software even though the UPS is no longer connected to local system.
- **Step 3** Select time period by clicking calendar icon. Then click "Browse" button to get list of all history events during selected period time.
- Step 4 Print/Delete/Export function keys
  - > "**Print**": Click "Print" button to print the current event log.
  - "Delete/Delete All": To delete specific event, simply select that event and then click "Delete" button. Or click "Delete All" button to delete all history events on the listed table.
  - > "Export": Click "Export" button to save listed table to local PC in .CSV file.
  - (ii) Event Statistics

It will list down and provide all event statistics for UPSs with software installed based on time period A and time period B, and the change percentage [= 100\*(B/A - 1)%].

**NOTE**: Event types include UPS internal event, bypass event, battery event, software event, load event, input event, parallel system event and communication event.

**Step 1** Select View >> History >> Event Statistics. Or click shortcut icon Liagram 5-21.

User type: Administrator Logout CA UPS MENU A 🐺 🍓 🌇 🥹 🔍 📀 Monitored UPS: USB (id=13E5C257_PMV) Engli							
Event log	Eve	nt statistics Data D	iagram				
	UPS	USB id=(13E5C257) V PMV	<b>Y</b>		18-11-01 18-11-01 Bro Search	wse	
ID		Type ∳	Event list ¢	Time periodA ⇔	Time periodB ⇔	Change (%) ¢	
1		Software event	Network communication interrupted.	0	0	0	
2		Software event	Network communication restored.	0	0	0	
3		Battery event	Battery self-test completed	0	0	0	
4	4 Input event		AC failure	0	0	0	
5	5 Input event		AC recovery	0	0	0	
6		Software event	System is going to shutdown	0	0	0	
_			Scheduled weekly UPS				

Diagram 5-21

- **Step 2** Select UPS from com. port list. Users still can retrieve old data saved in the software even though the UPS is no longer connected to local system.
- Step 3 Select two periods from clicking "calendar" icon. Then click "Browse" button. The result statistics will be listed in below table according to event types. Refer to Diagram 5-22.

/iewPower upsmenu▲ 🌄 🕻	🖙 🛛 🔍 (			User type: Adr Monitored UPS: USB	ninistrator Logout Change (id=13E5C257_PMV) English	je Passw
	nt statistics Data D	· · ·		018-11-01 Bro 018-11-01 Search	wse	
ID 🔺	Type ∳	Event list ¢	Time periodA ⇔	Time periodB ⇔	Change (%)	
1	Software event	Network communication interrupted.	0	0	0	
2	Software event	Network communication restored.	0	0	0	
3	Battery event	Battery self-test completed	0	0	0	
4	Input event	AC failure	0	0	0	
5	Input event	AC recovery	0	0	0	
6	Software event	System is going to shutdown	0	0	0	
		Scheduled weekly UPS				

Diagram 5-22

**Step 4** Click "Print" button to print event statistics.

#### (iii) Data

In the window of Data, it shows UPS power data in figures during selected period time. Software also offers print, save as, and delete functions.

ViewPo	ower					User type: Administi	rator Logout
UPS ME	NU 🔺 🌄	📳 🚏 🧕	) 🔍 💽		Monit	tored UPS: USB (id=1	3E5C257_PMV)
	Event log	Event statistics	Data Diagram				
		UPS USB id=(	13E5C257) V PMV	Time period 20	18-11-01 2	Re 2018-11-01	ecord interval 60 Sec
		Urs Usb Id=(	(19296237)	Ame period 20		elete Delete all	Export
						Search	
	*	▲ Time ≎	¢ Input voltage ¢	Output voltage 🖕	Output frequency ∳	Load level ¢	Battery voltag ¢
	1	2018-11-01 11:04:53	226.5	226.5	50.0	0	13.55
	2	2018-11-01 11:03:54	226.5	226.5	50.0	0	13.55
	3	2018-11-01 11:02:55	228.7	228.7	50.0	0	13.55
	4	2018-11-01 11:01:56	228.7	228.7	50.0	0	13.55
	_	2018-11-01				_	

**Step 1** Select View >> History >> Data. Refer to Diagram 5-23.

#### Diagram 5-23

**NOTE**: This screen may be different for different types of UPSs.

- **Step 2** Select UPS from com. port list. Users still can retrieve old data saved in the software even though the UPS is no longer connected to local system.
- **Step 3** Select the starting time and ending time by clicking calendar icon. Then click "Browse" button to get the data table.
  - > "**Print**": Print the listed data table.
  - > "Delete": Select specific data and click "Delete" button to delete the record.
  - > "Delete All": Click "Delete All" button to delete all records on the listed table.
  - > "Export": Click "Export" button to save listed table to local PC in .CSV file.
  - (iv) Diagram

In the Diagram window, it shows UPS power data in diagram during selected period time. UPS power data includes input voltage, output voltage, input frequency, output frequency, load level, battery capacity, and UPS temperature.

**Step 1** Select View >> History >> Diagram. Refer to Diagram 5-24.

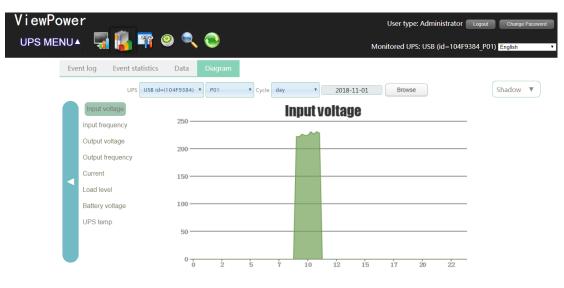


Diagram 5-24

**NOTE**: This screen may be different for different types of UPSs.

- **Step 2** Select UPS from com. port list. Users still can retrieve old data saved in the software even though the UPS is no longer connected to local system.
- **Step 3** Select cycle and period time. Then click "Browse" button to get the diagram.
- **Step 4** Select monitoring parameters on left-hand tab to switch diagram.

#### 5.5. Format

**Temperature Unit:** There are two temperature units for selecting: Centigrade and Fahrenheit. Default setting is centigrade.

**Date Format:** There are nine formats for date display:

YYYY-MM-DD,YYYY/MM/DD,YYYY:MM:DD,MM-DD-YYYY,MM/DD/YYYY,MM:DD:YYYY,

DD-MM-YYYY,DD/MM/YYYY,DD:MM:YYYY. Default setting is YYYY-MM-DD.

#### 5.6. Language

Currently, software offers thirteen languages for selection:

- ✓ Chinese(Simplified)
- ✓ Chinese(Traditional)
- ✓ English
- √ German
- √ Italian

- ✓ Polish
- ✓ Portuguese
- ✓ Russian
- ✓ Spanish
- √ Ukrainian
- √ French
- √ Turkish
- √ Czech

#### 5.7. Help

- **About**: Click "Help" menu and select "About" item. It represents the copyright information about software
- **Help**: Click "Help" menu and select "Online help" item. It will open the help manual. Before operating software, please read manual carefully.

## Appendix A: Glossary

- Local PC (system): The local PC (system) is physically connected to UPS with communication port.
- **Remote PCs (systems):** The remote PCs (systems) are physically powered by UPS without communication port connection.