# **SNMP Web Pro**

# User's Manual

Management Software for Uninterruptible Power Supply Systems

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# 1. Overview

### 1.1 Introduction

This SNMP web pro can provide web server to monitor and manage multiple UPSs in networked environment. It can detect temperature and humidity for the environment via connecting to EMD (Environmental Monitoring Device). The same port is also applied for data transmission. Simply connect to SMS modem for SMS sending with a RJ11 to DB9 cable.

It can not only prevent data loss from power outage and safely shutdown systems, but also store programming data and scheduled shut down the UPS. All UPS warning and fault event records can be kept in SNMP web pro.

The intended use of this product is connectivity to private networks only. If connection to public networks are needed, it is the users/customers responsibility to apply additional security measures such as firewall, managed switches, VPN etc.

### 1.2 Features

- > Open monitor via Web Browser.
- > Offer SNMP MIB to monitor UPS status.
- > Automatically detect and exchange 10M/100M Fast Ethernet.
- > Support wake-on-LAN function.
- Supported protocol such as TCP/IP, UDP, SNMP, SMTP, SNTP, HTTP, HTTPS, SSL, SSH, IPV4/IPV6, DHCP and so on.
- It can prevent data loss from power outage and safely shut down systems.
- Able to store event log more than 200,000 threads, including UPS warnings, faults and EMD warnings, operation data logs from web users. It will be stored safely without loss even when power failure occurs.
- > Support daily reports for event log and data log.
- Scheduled UPS on/off and battery test.
- > Support EMD monitoring and SMS sending.
- Equipped with real-time clock to record log with date and keep running up to 7 days without power connected.

### 1.3 Overlook



Ethernet port (10/100Base-T)
Sensor port/data transmission port
Golden finger: connects to UPS slot
Ethernet port status LEDs
Jumper setting to restore default setting

Ethernet port status LEDs:

100M LED (Green) On		Port is operating at 100Mbit/s
	Off	Current web bandwidth is 10Mbit/s
Link status LED	Flash	Link Active
(Yellow)	Off	Card is not connected to the network

Pin assignment for Jumper:

Pin #	Status	Description	
Pin 1 & Pin 2	Closed	Normal operation	
Pin 2 & Pin 3	Closed	After re-connecting utility, the IP	
		address of SNMP web card and	
		password will restore to default	
		setting.	
		Default static IP address:	
		(192.168.102.230)	
		Default password:	
		Q1f@18*_~zYLyaM	

**NOTICE:** After setting is restored to default, be sure to change the jumper setting to connect Pin 1 and Pin 2 for normal operation.

### 1.4 Installation and Connection

#### **Installation**

If using SNMP web pro, please follow below steps to install card first: **Step 1:** Remove the cover of intelligent slot on the back panel of UPS and retain the screws

**Step 2:** Slide the card into the open slot and secure with the screws from step 1. (see chart 1-1)



#### Chart 1-1

**Step 3:** Plug Ethernet cable to the Ethernet port (RJ-45) on the SNMP web pro.

**Step 4:** If an EMD (environmental monitoring device) is used, another RJ11 cable is required. Connect one end to the sensor port on the SNMP web pro and the other end to the EMD.

#### **Connection**

SNMP Web Pro uses DHCP by default. If there is no DHCP server in the LAN, the SNMP web pro will use the default static network parameters after 5 minutes. The SNMP web pro is default applied static IP address as 192.168.102.230, default subnet mask as 255.255.255.0, and default gateway as 192.168.102.254. Users can modify IP address or apply DHCP mode through web server of SNMP web pro.

# 1.6 Monitoring

There are two ways to monitor:

a) Simply enter https address (https://192.168.102.230) in web browser to access web server directly. Refer to Chart 1-2.

← ⊕ @ https://192.168.102.230	D 🗸 🕲 🖉 SNMP web pi	ro X			- □ × ☆☆♥©
SNMP Web Pro 1.1			Status	ogin Guest	
Information	UPS information				
Status Basic information	UPS mode	Line Mode	UPS temp.:	27.0 ℃	
UPS setting	Auto reboot	enabled	Converter mode:	disabled	
Parameters setting	Purpase pet allowed	disabled	Bypass when OP3 is oil.	disabled	
Control	UPS warning		r aut type.		
Real-time control	or o maning			I]	
System configuration	Input information				
Web	Input voltage	218.2 V	Input frequency:	50.0 Hz	
E-mail SMS					
Upload	Output information				
Wake on LAN Shutdown	Output voltage	229.9 V	Output frequency:	50.0 Hz	
Event action	Output current	0.0 A	Load level:	1 %	
Scheduled System time					
SNMP configuration	Battery information				
Log	Battery voltage	39.5 V	Battery capacity:	91 %	
Event log	Remaining backup time	343 Min			
Data log					
Serial Port Debug	EMD information				
Firmware Upgrade	EMD temp.	°C	Humidity:	%	
	Alarm1	-	Alarm2:	-	

Chart 1-2

b) Installed ViewPower Pro software to monitor SNMP web pro. Refer to Chart 1-3.

Please check ViewPower Pro User Manual for detailed monitoring.



Chart 1-3

# 2. SNMP web pro GUI

SNMP web pro GUI includes function menu, login section and main screen. Refer to Chart 2-1:

NMP Web Pro 1.1	A	Sizitu uogin Guest D
Information	UPS information	
Status	UPS mode: Line Mode	UPS temp.: 27.1 °C
Basic information	Auto reboot: enabled	Converter mode: disabled
UPS setting	ECO Mode: disabled	Bypass when UPS is off: disabled
Parameters setting	Bypass not allowed: disabled	Fault type:
Control	UPS warning:	
Real-time control		
System configuration	Input information	
Web	Input voltage: 218.9 V	Input frequency: 50.0 Hz
E-mail SMS	C	
Upload	Output information	
Wake on LAN	Output mornauon	Output froguency: 50.0 Hz
Shutdown Event action	Output voltage. 250.1 V	Load lovel: 2 %
Scheduled	Output current. 0.0 A	Load level. 2 70
System time		
SNMP conliguration	Battery information	
Log	Battery voltage: 39.5 V	Battery capacity: 92 %
Event log Data log	Remaining backup time: 344 Min	
Help		
Serial Port Debug	EMD information	
Firmware Upgrade	EMD temp.: °C	Humidity: %
	Alarm1: -	Alarm2: -

Chart 2-1

- A .SNMP web pro GUI version
- B .Function Menu

It offers complete tool-set for navigation and setting the GUI.

C .Main Screen

It will display information and/or control alternatives according to function menu selected.

D. Login section

It shows user type for current login user. The default password for administrator is Q1f@18\*\_~zYLyaM

It is recommended to change the password after the first login. Please refer to 3.4.9.

# **3. Function Menu**

## 3.1 Information

#### 3.1.1. Status

Select Information >> Status. Refer to Chart 3-1. It's shown real-time monitored UPS data including input, output, UPS, battery information and environmental information in table format.

SNMP Web Pro 1.1	StatusLogin Guest
Information	IUP S information
Status	UPS mode: Line Mode UPS temp.: 27.1 °C
Basic information	Auto reboot: enabled Converter mode: disabled
UPS setting	ECO Mode: disabled Bypass when UPS is off. disabled
Parameters setting	Bypass not allowed: disabled Fault type:
Control	UPS warning:
Real-time control	
System configuration	Input information
Web	Input voltage: 217.8 V Input frequency: 50.0 Hz
E-mail SMS	
Upload	Output information
Wake on LAN Shutdown	Output voltage: 229.6 V Output frequency: 49.9 Hz
Event action	Output current 0.0 A Load level 2 %
Scheduled	
SNMP configuration	Battory information
Log	Battery unitarie: 39.5 V Battery canacity: 92.%
Event log	Banalaina harkun tima: 345 Min
Data log	Ternaming beckup units bet mint
Help	CMD information
Serial Port Debug	
Firmware Upgrade	
	Additit, Addit, Additit, Addit, Additit, Additit

Chart 3-1

#### 3.1.2. Basic information

Select Information >> Basic information. It includes UPS basic information, battery information and UPS rated information. Refer to Chart 3-2.

SNMP Web Pro 1.1		Basic information Login Guest
Information	Basic information	
Status	UPS type: OLHV1K5 ON LINE	Input phase/Output phase: 1/1
Basic information	Input voltage/Output voltage: 230/230 V	UPS serial number: 000000000000000
UPS setting	UPS FW version: VERFW:01987.00s1	SNMP FW version: 1.1.2.3
Parameters setting	Equipment attached: SNMP web pro	
Control		
Real-time control	Battery information	
System configuration	Battery group number: 1	
Web	731	
E-mail SMS	UPS rated information	
Upload	Rated VA: 1500.0 VA	Rated output voltage: 230.0 V
Wake on LAN Shutdown	Rated output frequency: 50.0 Hz	Rated output current: 6.0 A
Event action	Rated battery voltage: 36.0 V	
Scheduled		
SNMP configuration		
Log		
Event log		
Data log		
Help		
Serial Port Debug		
Filmware Opgrade		

Chart 3-2

# 3.2 UPS setting

#### 3.2.1 Parameters setting

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

Select UPS setting >> Parameters setting. Refer to Chart 3-4.

SNMP Web Pro 1.1		Parameters setting Login Guest
Information Status Basic information UP5 sections Centrol Centrol Centrol Centrol Centrol SMS Upload Wake on LAN SMS Upload Wake on LAN SMS Upload Wake on LAN SMS Upload Wake on LAN SMS Upload Wake on LAN SMS Upload Wake on LAN Stutdown Scheduled System time SIMP configuration Conf	Alarm controt: ● Enable       Disable       Apply         Alarm at brpass mode: ● Enable       Disable       Apply         Alarm at butery mode: ● Enable       Disable       Apply         Alarm at butery mode: ● Enable       Disable       Apply         Bypass when UPS is of: ○ Enable       ● Disable       Apply         Bypass when UPS is of: ○ Enable       ● Disable       Apply         Converter mode:       ○ Enable       ● Disable       Apply         ECO mode:       ○ Enable       ● Disable       Apply         Outlet setting       Backup time for P1(battery mode)       999       Min       Apply         Voltage and frequency range for bypass mode       Max. voltage       170       V       Apply         Min. voltage       170       V       Apply       Mapply         Min. frequency       48       Hz       Apply	Advanced ECO mode: Enable Disable Apply Green power function: Enable Disable Apply Cold start: Enable Disable Apply Bypass not allowed: Enable Disable Apply Battery deep-discharge protection: Enable Disable Apply Battery deep-discharge protection: Enable Disable Apply P1 programmable outlet control: Enable Disable Apply P1 programmable outlet control: Enable Disable Apply Battery numbers setting Numbers in parallet Apply Vottage range for ECO mode Max. vottage 22 V Apply Min. vottage 213 V Apply Default

Chart 3-4

**Note:** Different UPSs may access different parameter setting.

- 1. Select the functions by clicking "Enable" or "Disable" button. Change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
- 2. Click "Apply" button to save the settings. Each function setting is saved by clicking "Apply" button in each section.
- 3. Click "Default" button to recover the default setting.

**Note:** Any functions which are not supported by UPS will not be able to access.

- > Alarm Control: 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 recover when AC is recovering. Vice versa.
- Bypass when UPS is off: If enabled, AC 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.

- Battery open status check: If enabled, the monitored UPS will check if the battery connection is ok or not when UPS is turned on.
- 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 shuts down 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 arrives. If disabled, UPS will provide continuous power to P1 outlets until the battery is running out.
- Outlet setting: Users can set limited backup time for P1 outlets when UPS is on battery mode.
- > Battery numbers setting: 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.

# 3.3 Control

3.3.1. Real-time control

Select Control >> Real-time control. Refer to Chart 3-5.

SNMP Web Pro 1.1			Real-time contro Login Guest
Information Status Basic information UPS setting Parameters setting Central Real-time control System contrigutation Web E-mail System contrigutation Web E-mail SMS Upload Wake on LAN Shutdown Event action Scheduled System time SNMP configuration Log Event log Data log Help	Alarm control UPS turn on/off UPS outlet on/off control UPS reboot Battery self-test 10-second self-test Deep discharge test Minute self-test: 1Min(s	On       Off         On       Off         Turn off delay 30       Sec. turn on delay 30       Sec. start         Turn off delay 0       Sec. turn on delay 0       Sec. start         Start       Cancel         Start       Cancel         Start       Cancel	real-time contro logni Guest
Serial Port Debug Firmware Upgrade			

#### Chart 3-5

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

- > UPS turn On/Off: Click "On" to turn on the UPS and "Off" to turn off the UPS immediately.
- Battery Self-Test: It offers three types of battery self-test: 10-second self-test, deep discharge test, and self-defined self-test. Simply clicking "Start" button from each type. It will execute the self-test immediately.

### 3.4. System configuration

#### 3.4.1. Web user

It configures the authority to access SNMP web pro. Please enter access ID and password in each column. There is no limitation to access control in default setting. It is also allowed for http and https modification. The default setting is 80 for http and 443 for https. If any modification for adding web users, deleting web users or port re-configuration, it's necessary to click "Restart Web Server" button to restart web server to activate all modifications. Refer to Chart 3-6.

HTTP is an insecure protocol without encryption. It is recommended to be disabled.

SNMP Web Pro 1.1	Weblogin Guest
Information	* : Restart the web server to take effect.
Status Basic information	Web Server Configure
UPS setting	Https Port 443 Apply
Parameters setting	
Control	User Account
Real-time control	User Name Password Permission Operation
System configuration	Read Apply
E-mail SMU Upload Wake on kn Event action Scheduled System time SMMP configuration Log Data log Help Serial Port Debug Firmware Upgrade	Restart Web Sarver

Chart 3-6

#### 3.4.2. E-mail

It's allowed to send alarm mail by SMTP server. To use this function, the e-mail service must be correctly configured. 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.

Select System Configuration >> E-mail. Refer to Chart 3-7

SNMP Web Pro 1.1	E-maillogin Guest
information Basic information UP3 setting Control Control System configuration Web Configuration Web Configuration Web Configuration Shufdown Event action Scheduled System time SNNP configuration Log Event log Data log Help Serial Port Debug Firmware Upgrade	SMTP server smtp test.com       Receive 1       Apply       Delete         Security Type:       None       ® SSL <ptls< td="">       Receive 2       Apply       Delete         Port       #65       Receive 3       Apply       Delete         Security Type:       Need Auth       Receive 6       Apply       Delete         Password:       Need Auth       Receive 6       Apply       Delete         Password:       Need Auth       Receive 7:       Apply       Delete         Note:       After apply, you can click Test" button to send a test message.       Receive 6:       Apply       Delete         Apply       Test       Delete       Password get back Email:       Apply       Delete         Apply       Test       Delete       Password get back Email:       Apply       Delete         Send Email for Daily Report (th:mm):       at 00:00       Send Email when Data Log overflows (30M):       Test       Apply       Delete         Send Email when Data Log overflows (30M):        Apply       Delete       Apply       Delete</ptls<>

#### Chart 3-7

- Enter SMTP server, security type (supported encryption from SMTP server), SMTP port, sender's E-mail address, user name and password. Click checkbox of "Need Auth" for password verify.
- 2. Enter correct e-mail accounts in Receive list. Then, click "Apply" to add into receivers list. Click "Delete" button to delete e-mail account.
- 3. Click "Apply" to save the 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.

- 4. You may decide who will receive daily report e-mail at specific duration. Please enter recipient's Email Address and timer into columns. Then, click "Apply" button to set up this action. You also can configure who will receive alarm e-mail when event log exceeds 100 or data log exceeds 50 records. Please click checkbox of selections.
- 3.4.3. SMS
  - Sending SMS By Server

It is required to have service software available such as ViewPower Pro. In the event of an alarm condition occurring, a message about UPS status will be sent to the specified users via mobile phone. Please refer to Chart 3-8 b.

• Sending SMS By Serial Port

It is used EMD port as data transmission to send SMS without any service software. Please configure Baud rate of GSM Modem as 9600 and then connect data transmission port ( $\Box$ ) of SNMP web port card to GSM Modem with a RJ11 to DB9 cable. Please refer to Chart 3-8 a for detailed wiring.



DB-9



SNMP Web Pro 1.1		SM/Skogin Guest
Information Status Basic information UPS setting Parameters setting Control Real-time control System configuration Web F-mail Wab Opload Wake on LAN Shutdown Event action Scheduled System time SNMP configuration Log Event log Data log Help Serial Port Debug Firmware Upgrade	Send SMS By:       ● Server       ○ Serial Port         SMS maximum       100	Receive 1:       Apply       Delete         Receive 2:       Apply       Delete         Receive 3:       Apply       Delete         Receive 4:       Apply       Delete         Receive 5:       Apply       Delete         Receive 6:       Apply       Delete         Receive 8:       Apply       Delete

#### 3.4.4. Wake on LAN

It's to remotely wake on specific PCs in LAN when these PCs are supported to Wake-on-LAN (WOL) via a magic packet.

Select System Configuration >> Wake on LAN. Refer to Chart 3-9.

SNMP Web Pro 1.1			Wake on LAN Login Guest
Information Status	MAC address 01: 00-00-00-00-00	Apply Delete	
Basic information UPS setting	MAC address 02: 00-00-00-00-00-00 MAC address 03: 00-00-00-00-00	Apply Delete Apply Delete	
Parameters setting Control	MAC address 04: 00-00-00-00-00 MAC address 05: 00-00-00-00-00	Apply Delete Apply Delete	
Real-time control System configuration	MAC address 06: 00-00-00-00-00-00	Apply Delete	
Web E-mail SMS	MAC address 08: 00-00-00-00-00-00	Apply Delete	
Wake on LAN Sinudown	MAC address 09: 00-00-00-00-00-00 MAC address 10: 00-00-00-00-00	Apply Delete Apply Delete	
Event action Scheduled System time	MAC address 11: 00-00-00-00-00	Apply Delete	
SNMP configuration	MAC address 12: 00-00-00-00-00-00 MAC address 13: 00-00-00-00-00	Apply Delete Apply Delete	
Event log Data log	MAC address 14: 00-00-00-00-00-00 MAC address 15: 00-00-00-00-00	Apply Delete Apply Delete	
Serial Port Debug Firmware Upgrade	MAC address 16: 00-00-00-00-00	Apply Delete	
	MAC address 17: 00-00-00-00-00 MAC address 18: 00-00-00-00-00	Apply Delete Apply Delete	
	MAC address 19: 00-00-00-00-00-00	Apply Delete	
	MAC address 21: 00-00-00-00-00-00	Apply Delete	

Chart 3-9

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

#### 3.4.5. Shutdown

It is to remotely shut down specific PCs with Shutdown Wizard. This function is only available to integrate with Shutdown Wizard. Please also check user manual of Shutdown Wizard for the details.

Select System Configuration >> Shutdown. Refer to Chart 3-10.

SNMP Web Pro 1.1					Shutdown <sup>Login</sup>	Guest		
	Vaus a sist list halour							-
Information	Your script list below:							^
Status Basic information	No script available!							
UPS setting								
Parameters setting	select No file selected							
Control								
Real-time control	Tou can enter script name in o	command field if you wan	t to execute it by SSH.					
System configuration								
Web E-mail	If you are using the Chutdown	Wizord 1 16 and above p	losse sheek AES ensurite					
SMS	If you are using the Shutdown	viizaru 1. to anu above p	lease check ALS encryptic	ni.				
Upload Wake on LAN	IP address	AES SSH	_ User name	Password	Command			
Shutdown	01.0000	encryption shutdow	n ar at		h - H	Analy Dala	. 01	
Event action Scheduled	01. 0.0.0		1001		Indit	Apply Delet	8 01	
System time	02: 0.0.0		root		halt	Apply Delet	e 02	
SNMP configuration	03: 0.0.0.0		root	******	halt	Apply Delet	e 03	
Log	04: 0.0.0.0		root	*******	halt	Apply Delet	e 04	
Data log	05: 0.0.0.0		root	******	halt	Apply Delet	e 05	
Help	06: 0.0.0.0		root	*******	halt	Apply Delet	e 06	
Serial Port Debug Firmware Upgrade	07: 0.0.0.0		root	******	halt	Apply Delet	e 07	
	08: 0.0.0.0		root	*******	halt	Apply Delet	e 08	
	09: 0.0.0.0		root	******	halt	Apply Delet	e 09	
	10: 0.0.0.0		root	*******	halt	Apply Delet	e 10	
	11: 0.0.0.0		root	******	halt	Apply Delet	e 11	
	12: 0.0.0.0		root	******	halt	Apply Delet	B 12	~

Chart 3-10

#### 3.4.6. Event action

This function is only available to integrate with Shutdown Wizard. Please also check user manual of Shutdown Wizard for the details.

Select System Configuration >> Event action. Refer to Chart 3-11.

SNMP Web Pro 1.1		Event action Login Guest	
Information Status Basic information UPS setting Parameters setting Control Real-time control System configuration Wabe E-mail SMS Upload Wabe on LAN Studewar SMS Upload Wabe on LAN Studewar Configuration Scheddard System time SINIP configuration Log Event log Data log Help Serial Port Debug Firmware Upgrade	Shutdown the PC while battery mode.         Shutdown PC: ● after 1900 Sec         The needed for shutting down the PC [120 Sec.         The FC should: Shutdown ● Go to aleep         Also power off the UPS after shutting down the PC.         Apply         ♥ Shutdown the PC while low battery.         Apply         ♥ Shutdown the PC while low battery.         Apply         ♥ Shutdown the PC while low battery.         Apply         ♥ Send E-mail while any UPS's event occurs.         Apply         ♥ Send How while any UPS's event occurs.         Apply         ■ Bata mining temperature upper limit         Shutdown the PC while temperature upper limit         Shutdown the PC while temperature upper limit         Shutdown the PC while any UPS's event occurs.         Apply         EMD alarming temperature upper limit         IDD alarming temperature upper limit         Data record interval 60         Sec:         Apply         Bata record interval 60         Sec:         Apply         Bata record interval 60         Sec:       Apply         #       Select allunselect all Event Code Descriptions         001       ¥ voltage not within defaulat sett		

Chart 3-11

- Shutdown the PC while battery mode: When selected, integrated with Shutdown Wizard, local PC will shut down while UPS works on battery mode.
- Time needed for shutting down the PC: Enter the delay time to shut down the operating system.
- The PC should:
  - 1. Shutdown: When clicking the checkbox, the selected system will shut down. The default setting is clicked.
  - 2. Sleep mode: 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.
- Also power off the UPS after shutting down the PC: When click the checkbox, monitored UPS will turn off after local system shuts down. The UPS shutdown time will be later than system complete shutdown time. Users can choose to shut down the system without shutting down the UPS.
- Shutdown UPS output after xx sec: It will cut off UPS output after monitored UPS works on battery mode for xx sec.
- Shutdown the PC while low battery: When clicking this checkbox, local PC will shut down when monitored UPS battery is running low.
- Wake on LAN while AC recovery: When clicking this checkbox, the local PC will be wake on LAN while AC recovery.
- Send E-mail while any UPS event occurs: When clicking this checkbox, it

will send alarm E-mail when any event occurs on the local UPS.

- Send SMS while any UPS event occurs: When clicking this checkbox, in the event of an alarm condition occurring, a message about UPS status will be sent to the specified users via mobile phone.
- EMD alarming temperature upper limit: Set up alarm for high temperature point. If detected temperature is beyond setting value, it will send alarm message.
- EMD alarming humidity upper limit: Set up alarm for high humidity point. If detected humidity is beyond setting value, it will send alarm message.
- Data record interval xx sec: Data log record the data per xx sec.

#### 3.4.7. Scheduled

Select System Configuration >> Scheduled. Refer to Chart 3-12.

SNMP Web Pro 1.1	Scheduled Login Guest
Information Status Basic information UPS setting Control Real-time control System configuration Web Evential SMS Upload Wake on LAN Shufdown Event action Scheduled System table Staff Configuration Log Event log Data log Help Serial Port Debug Firmware Upgrade	Battery test scheduled         Frequency:       Once         Daily       Weekly         Monthly       Date(yyyyhmidd) 2014/02/12         Statt inchr.mml;       000         Method:       0 10-second self-test         Statt inchr.mml;       Obep discharge test         Apphy       UPS Chr/Uf schedule         Frequency:       Once         Daily       Weekly         Power off at       2014/01/01 (yyyyhmidd) 00:00 (nh:mm)         Make PC shutdown or sleep before UPS power off         Power on at       2014/01/01 (yyyyhmidd) 00:00 (nh:mm)         Wake on LAN after UPS power on         Apphy         Use battery test scheduled         Apphy

#### Chart 3-12

- Scheduled battery self-test: Scheduled battery self-test can be executed once, daily, weekly, or monthly. Users can select UPS and time parameters. It is recommended to set only one action in the same time. If multiple actions have been applied at the same time, some of these actions may be ignored. Any action will be ignored when the action is not supported by the UPS.
- Scheduled UPS on/off: Scheduled UPS on/off can be executed once, daily, weekly. Users can select UPS and time parameters. It is recommended to set only one action in the same time. If multiple actions have been applied at the same time, some of these actions may be ignored. Any action will be ignored when the action is not supported by the UPS.

#### 3.4.8. System time

Select System Configuration >> System time. Refer to Chart 3-13.

SNMP Web Pro 1.1	System time.login Guest
information Status Basic information UPS setting Parameters setting Real-time control System configuration Web E-mail SMS Upload Wake on LAN Stutdown E-vent action System time System time System time Data log Heip Serial Port Debug Firmware Upgrade	Automatic time correction interval:       12 Hours ♥         Time zerver:       Time windows com         Time Zone(Reliative to GMT)       ♥         Applying daylight saving time:       No         Adjust now >>          System Time (yyyy/mn/dd hh.mm.sp):       201001010102.29         Auto Restart System for Every (0: Disable):       0         Manual Restart System After 30 Seconds:       Apply

Chart 3-13

- Automatic time correction interval
- Time server: The SNTP server IP address or domain name.
- Time Zone (Relative to GMT): It's measured to relative to GMT.
- System Time (yyyy/mm/dd hh:mm:ss): It is to set up SNMP web local host time
- Auto Restart System for Every (0: Disable): XX Minute(s)
- Manual Restart system after 30 Seconds: When click "Apply" button, SNMP will restart after 30 seconds.

#### 3.4.9. SNMP configuration

Setting SNMP web pro basic information such as IP address, password, trap IP address, SNMP UDP port, add/delete snmpv3 user account and restore the factory settings.

Note: Some modifications are required to restart SNMP server to become

effective.

Select System Configuration >> SNMP configuration. Refer to Chart 3-14 a

and 3-14 b.



Chart 3-14 a

SNMP Web Pro 1.1								SNMP configurat	ion Login G	luest	
	Trap IP address						ļ				
Information	#		IP address						Operation		· ^
Status Basic information	01	c	0.0.0.0					Ap	oply Delet	te	
UPS setting	02	0	0.0.0.0					Ap	oply Delet	te	
Parameters setting	03	0	0.0.0.0					Ap	oply Delet	te	
Control	04	<u>[</u>	0.0.0.0					Ap	oply Delet	te	
Real-time control	05	0	0.0.0.0					Ap	oply Delet	te	
System configuration	08	6	0.0.0.0					Ap	oply Delet	te	
Web	07		0.0.0.0					Ap	oply Delet	te	
SMS	08	0	0.0.0.0					Ap	oply Delet	te	
Upload	09	c.	0.0.0.0					Ap	oply Delet	te	
Shutdown	10	C	0.0.0.0					Ap	oply Delet	te	
Event action Scheduled	11	0	0.0.0.0					Ap	oply Delet	te	
System time	12	c	0.0.0.0					Ap	oply Delet	te	
SNMP configuration	SNMP server configurat	ion *									
Evention			Version	0 v1/v2	●v3	Apply	Please restart snmpserv	er			
Data log			SNMP port	161		Apply					
Help			Trap receive port	182		Apply					
Serial Port Debug			RFC1628 table index base	00 0	1 Appl	1					
Tilliniale opgrade			Add SNMPV3 user	Add	1						
			SNMP server control	Start	Stop	,	Restart				
	SNMPV3 User Account	•									
		User Name			Perm	ission				Operation	
		575			Read	/Write				Modify	
	Remote login										
			Teine	t O Enable (	Disable	Apply					
			SSF	Enable (	Disable	Apply					
	Restore the factory sett	ings *									
		Co	onfirm restore factory settings'	Restore							
	Reboot										
			Reboot the system	Apply							

Chart 3-14 b

- IP address: There are two methods to obtain IP address
  - 1. Automatically obtain IP address (DHCP, default)
  - 2. Manually configure IP address

The system will default automatically obtain IP addresses. If there is no this kind of service provided in LAN, the default IP will display as "192.168.102.230", Net mask as "255.255.255.0" and default gateway as "192.168.102.254".

- Password: Modify the password. The length of password is 8~15 digits. Recommended to have a password policy with minimum 8 characters including a combination of uppercase, lowercase, numerical and special character and not to use dictionary words as password.
- Trap IP address: The SNMP device could provide 12 static trap addresses.

#### • SNMP server configuration:

Version: the "V3" is recommended for the safety consideration.

You may change SNMP port and trap port.

You also can add SNMPV3 users by clicking "Add" button. It will pop up a screen to set up user setting such as security level and permission level. Refer to below chart.

SNMP Web Pro 1.1				SNMP configura	alion Login Guest
	05			Apply	Delete
Information	06			Apply	Delete
Status Basic information	07	0.0.0		Apply	Delete
UPS setting	00	0.0.0		Apply	Delete
Parameters setting	00	0.0.0			Delete
Control	09	0.0.0		Apply	Delete
Real-time control	10			Appiy	Delete
stem configuration	11	0.0.0		Apply	Delete
Web	12	0.0.0.0		Apply	Delete
Upload Wake on LAN Shutdown Event action Scheduled System time SNMP configuration Log Event log Data log Help Svrial Part Dehun	SNMPV3 User Account *	Note: You have to stop the SI User Name user 1 Auth Protoco: MDS Priv Protoco: DES Permission (Read Only ser Name	IMP service first.	vet NoAuth NoPriv V ord	Operation Modify
Firmware Upgrade	Remote login	Teir	et OEnable   Disable Apply  CEnable  Disable Apply		
	Restore the factory setting	IS *	s2 Restore		
	Deheet				
	Rebot	Reboot the syste	m: Apply		

- Remote login: You can log in to SNMP Web Pro remotely through Telnet or SSH. These two services are turned off by default for security reasons. Remote login using Telnet is not recommended. If you need to update the SNMP Web Pro firmware via SNMP Web Manager, you need to enable the SSH service. It is recommended to turn off this service after the upgrade is complete.
- Restore the factory settings
   Note: The system will default automatically obtain IP addresses and default Password is Q1f@18\* ~zYLyaM

# 3.5. Log

#### 3.5.1. Event log

In the Event Log page, it lists all history events and can be saved as .csv file. The event log includes UPS warnings, fault info, EMD warnings, UPS operation logs from web users or ViewPower pro users. All logs are recorded in flash memory of web card by month. It's safely recorded without loss even after power failure occurs. It can save up to over 200,000 threads. Refer to Chart 3-15.

Select Log >> Event log.

SNMP Web Pro 1.1			Event logLogin	Guest	
Information	09_2019.csv V Apply Delete	12			
Status Basic information	Time	Event name	Event source	Client IP	
UPS setting	09/02/2019 18:18:58	Setting battery group number	Snmp Client	192.168.107.101	
Parameters setting	09/02/2019 18:19:02	Setting battery group number	Snmp Client	192.168.107.101	
Control	09/02/2019 18:19:12	Setting battery group number	Snmp Client	192.168.107.101	
Real-time control	09/02/2019 18:19:16	Setting battery group number	Snmp Client	192.168.107.101	
System configuration	09/02/2019 18:19:20	Setting battery group number	Snmp Client	192.168.107.101	
Web	09/02/2019 18:19:24	Setting battery group number	Snmp Client	192.168.107.101	
E-mail	09/02/2019 18:19:28	Setting battery group number	Snmp Client	192.168.107.101	
SMS	09/02/2019 18:19:32	Setting battery group number	Snmp Client	192.168.107.101	
Wake on LAN	09/02/2019 18:19:37	Setting battery group number	Snmp Client	192.168.107.101	
Shutdown	09/02/2019 18:19:41	Setting battery group number	Snmp Client	192.168.107.101	
Event action Scheduled	09/02/2019 18:19:45	Setting battery group number	Snmp Client	192.168.107.101	
System time	09/02/2019 18:19:49	Setting battery group number	Snmp Client	192.168.107.101	
SNMP configuration	09/02/2019 18:19:53	Setting battery group number	Snmp Client	192.168.107.101	
Log	09/02/2019 18:19:57	Setting battery group number	Snmp Client	192.168.107.101	
Event log	09/02/2019 18:20:01	Setting battery group number	Snmp Client	192.168.107.101	
Data log	09/02/2019 18:20:05	Setting battery group number	Snmp Client	192.168.107.101	
Help	09/02/2019 18:20:09	Setting battery group number	Snmp Client	192.168.107.101	
Serial Port Debug	09/02/2019 18:20:13	Setting battery group number	Snmp Client	192.168.107.101	
r inimale opgrade	09/02/2019 18:20:17	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:21	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:26	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:30	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:34	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:38	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:42	Setting battery group number	Snmp Client	192.168.107.101	
	09/02/2019 18:20:46	Setting battery group number	Snmp Client	192.168.107.101	

Chart 3-15

## 3.5.2. Data Log

In the Data Log page, it will list all history logs and can be save as .csv file. All logs are recorded in flash memory of web card by day. It's safely recorded without loss even after power failure occurs. It can save up to over 200,000 threads. Refer to Chart 3-16.

Select Log >> Data log.

SNMP Web Pro 1.1										
						Da	ita log <sup>Login</sup>	Guest		
Information	2010_01_01.csv V	Apply Delete								
Status Basic information	Time	Input voltage(V)	Output voltage(V)	1 2 Output frequency(Hz)	Load(%)	Battery voltage(V)	Temp.(°C)	EMD Temp.(°C)	EMD humidity(%)	
UPS setting	2010/01/01 00:06:25	218.1	0.0	0.0	0	39.5	26.8			
Parameters setting	2010/01/01 00:07:25	218.2	0.0	0.0	0	39.5	26.7			1
Control	2010/01/01 00:08:25	217.7	229.6	50.0	2	39.5	27.0			1
Real-time control	2010/01/01 00:09:25	220.3	230.0	49.9	2	39.5	26.7			
System configuration	2010/01/01 00:10:25	219.9	229.7	49.9	2	39.5	26.6			
Web	2010/01/01 00:11:25	218.8	230.1	50.0	1	39.5	26.5			
E-mail	2010/01/01 00:12:25	218.0	229.5	49.9	1	39.5	26.7			
SMS	2010/01/01 00:13:25	219.3	229.0	49.9	2	39.5	26.7			
Wake on LAN	2010/01/01 00:14:25	216.1	230.5	50.0	2	39.5	26.8			
Shutdown	2010/01/01 00:15:26	217.7	229.2	49.9	2	39.5	27.0			1
Event action Scheduled	2010/01/01 00:16:26	217.4	229.9	50.0	2	39.5	26.8			1
System time	2010/01/01 00:17:26	220.2	229.8	50.0	2	39.5	26.8			
SNMP configuration	2010/01/01 00:18:26	219.8	229.5	49.9	2	39.5	27.1			
Log	2010/01/01 00:19:26	218.2	230.0	50.0	2	39.5	26.8			
Event log	2010/01/01 00:20:27	218.2	229.3	50.0	1	39.5	26.7			
Data log	2010/01/01 00:21:27	218.2	230.1	50.0	2	39.5	26.6			1
Help	2010/01/01 00:22:28	217.7	229.5	50.0	2	39.5	26.7			1
Serial Port Debug	2010/01/01 00:23:28	218.5	229.6	50.0	1	39.5	26.7			1
r innware opgrade	2010/01/01 00:24:28	219.7	229.3	50.0	1	39.5	26.7			1
	2010/01/01 00:25:28	219.4	229.6	50.0	2	39.5	27.0			
	2010/01/01 00:26:28	219.3	229.6	50.0	2	39.5	26.8			
	2010/01/01 00:27:29	220.9	230.3	50.0	1	39.5	27.0			1
	2010/01/01 00:28:29	219.8	230.1	50.0	1	39.5	27.1			1
	2010/01/01 00:29:29	218.7	229.3	49.9	1	39.5	26.7			
	2010/01/01 00:30:29	218.9	229.0	49.9	2	39.5	27.0			
	2010/01/01 00:31:29	217.6	229.3	49.9	1	39.5	27.0			1

Chart 3-16

# 3.6. Help

#### 3.6.1. Serial Port Debug

It's to test communication condition between SNMP card and device. Select Help >> Serial Port Debug . Refer to Chart 3-17.

SNMP Web Pro 1.1		Serial Port DebugLogin Guest
Information Send Status Basic information OP5 setting Parameters setting Control Real-line control System configuration Web E-mail SMS Upload Wake on LAN Shutdown E-vent action Scheduled System time SINMP configuration Log Event log Data log Data log Basic Firmware Upgrade	content QPI Send	Clear

#### 3.6.2. Firmware Upgrade

It is recommended to enable the SSH before the update, refer to 3.4.9.

Select Help >> Firmware Upgrade . Refer to Chart 3-18.

SNMP Web Pro 1.1		Firmware Upgrade Login Guest
Information Status Basic information UPS setting Control Control Real-time control System configuration Web E-mail SMS Upload Web E-mail SMS Upload Web E-mail SMS Upload Web E-mail SMS Upload System time SMMP configuration Log Event log Data log Help State Rest Debug Firmware Upgrade	select No file selected! "When upprade successful the system will reboot.	

Chart 3-18

Disable the SSH after the update.

# 4. Service list

Service	Purpose	Default	Port	Port	UDP/TCP	Direc
		configuratio		modificatio		tion
		n		n		
Informati	For management software	Enabled	51220	Disabled	UDP	In
on	(such as SNMP Web					

	Manager) to obtain information about SNMP Web Pro, such as IP, MAC, gateway, DNS, etc.					
HTTP	Obtain the related information and set the parameters of the monitored device through the HTTP protocol.	Disabled	80	Enabled	TCP	In
HTTPS	Obtain the related information and set the parameters of the monitored device through the HTTPS protocol.	Enabled	443	Enabled	TCP	In
Telnet	Remote login system.	Disabled	23	Disabled	TCP	In
SSH	Use SNMP Web Manager for firmware upgrade, modify network parameters, etc.	Disabled	22	Disabled	TCP	In
SNMP	Obtain the related information and set the parameters of the monitored device through the SNMP protocol.	Enabled	161	Enabled	UDP	In
SNMP trap	Send SNMP traps when events occur on the monitored device.	Enabled	162	Enabled	UDP	Out
Easy shutdown	Shut down the host of the specified IP. Use with the ShutdownWizard.	Disabled	31234	Disabled	UDP	Out
Encrypted Shutdown	Shut down the host of the specified IP. Use with the ShutdownWizard.	Disabled	41234	Disabled	TCP	Out
SMS	Send SMS when events occur on the monitored device. Usually used with SNMP Web Manager.	Disabled	41222	Enabled	UDP	Out
SNTP	Get time from the time server.	Enabled	123	Disabled	UDP	Out
Email	Send emails when events	Disabled	465	Enabled	TCP	Out

occur on the monitored			
device.			

#### **Cyber Security Legal Disclaimer**

This product is designed to be connected to and to communicate information and data via a network interface. It is your sole responsibility to provide and continuously ensure a secure connection between product and your network or any other network (as the case may be). You establish and maintain any appropriate measures (such as but not limited to the installation firewalls, application of authentication measures, encryption of data, installation of anti-virus programs etc.) to protect the product, the network, its system and the interface against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information ABB Ltd and its affiliates are not liable for damages and/or losses related to such security breaches any unauthorized access, interference, intrusion, leakage and/or theft of data or information.