V3 Series of Smart PDU software instructions

I. Main functions

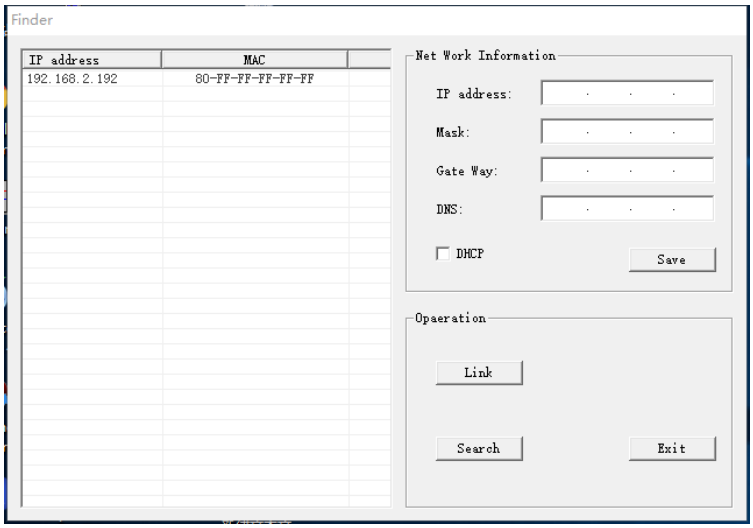
We produce all-Smart PDU to provide rich interface and management functions. Rich configuration, perfect function, users can choose the corresponding products according to the actual needs, very suitable for the use of large and medium-sized data centers, integrated computer rooms and other industries.

According to the needs of users, products are divided into monitoring type, monitoring control type to meet the needs of different users and occasions. Specific product selection can consult the company in order to obtain the latest technical information.

II. Default IP address and account number

The default IP address of the device is 192.168.1.100 , “admin” is the default account and password IP address and account password can be found by Finder tools or reset using panel default keys.

1. finder use



Through the computer using network cable and equipment network interface connection, click on the search button in the finder software. You can search for the currently connected device. Check the device in the list to edit and modify the device's IP address and other information.

Check the device click the Link button, you can directly use the browser to open the device access interface entry.

2. default reset

Use the default button to reset, will restore account and password, IP address, device settings and other information. If you restore, you need to reset. If the SNMP card or device has power, press 5 seconds, will automatically reset restart, about 45 seconds after re-login.

III. Browser access

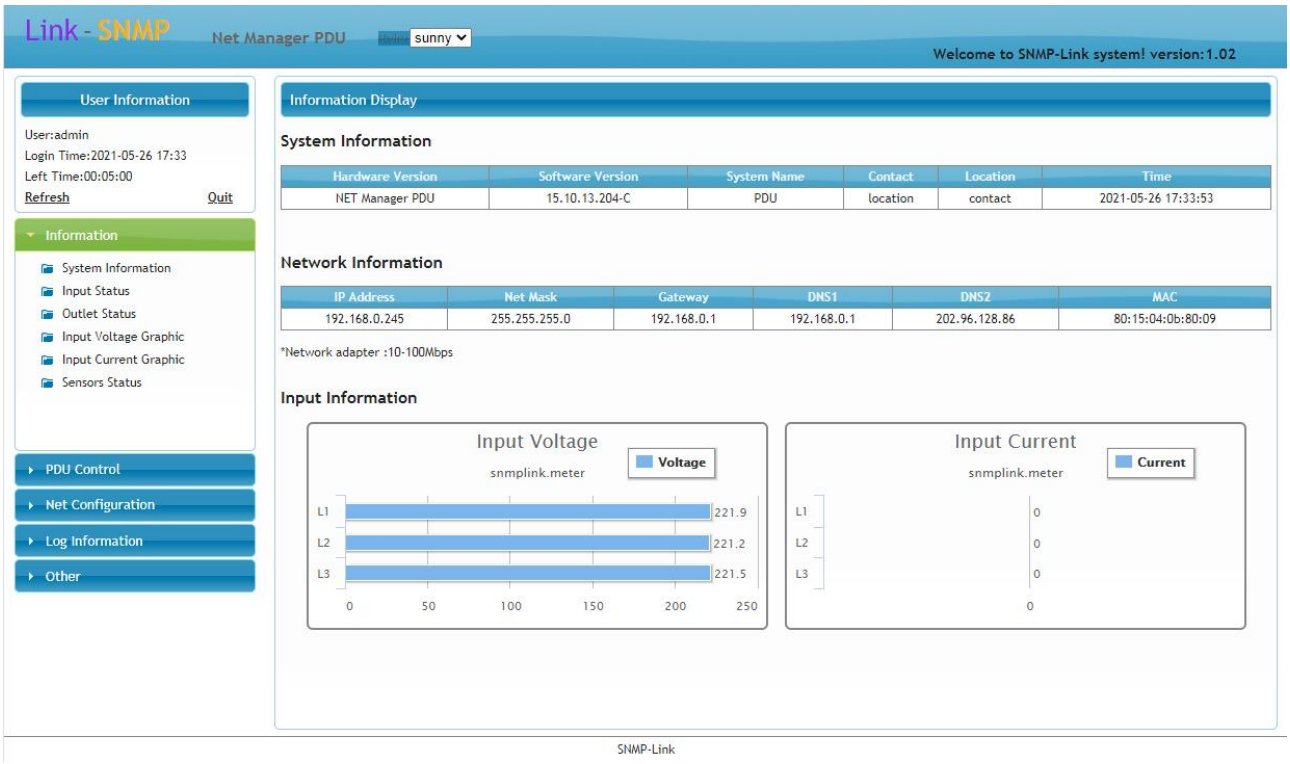
1) web interface

Access to the browser login device will enter the web control interface. If the HTTPS function is not turned on, enter the browser address bar http://192.168.1.100 then enter the login interface. The default IP address is 192.168.1.100. If the address is otherwise, modify it to the set IP address. Turn on the HTTPS function, input https://192.168.1.100. if the default port is modified, you also need to add the port. Take 8080 as an example:

http://192.168.1.100:8080

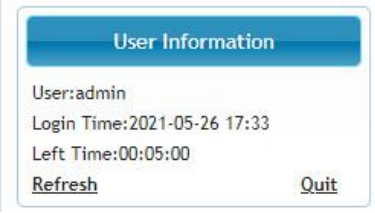
https://192.168.1.100:8080

After login with the correct account password: default is “admin” “admin”



Web interface can adjust the interface style and color according to user habits. Choose from the title bar. There are five styles: sunny,black,live,blue,green.

At the top of the menu bar, there is a user login basic information display, which can display the current login user name, the first login time, and the remaining exit time. When the exit time is 0, the web interface returns to the initial user login page.



Click the Refresh button to refresh the exit time. Click the exit button to exit immediately to the login page.

2) main menu introduction

The main functions of the left menu are:

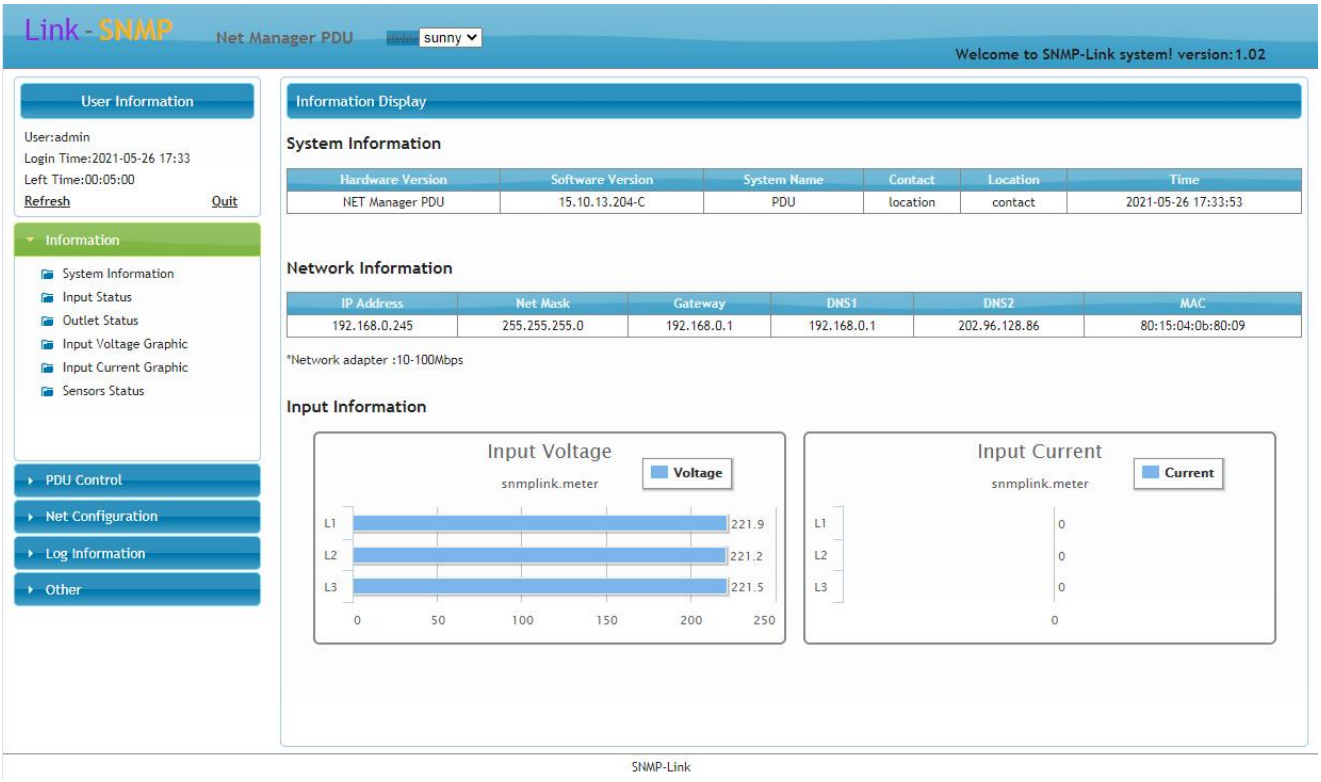
- The basic Information View column displays system information and device working status.

- The "device function control" column mainly sets PDU basic information and PDU working threshold, switches or alarms when the threshold is exceeded.
- "Network Information Settings" column, mainly set PDU basic network information and network parameters. Mainly includes network information settings, SNMP settings. Mail settings, user settings, time settings, firewall settings, etc.
- Log information column, mainly display event log and run log, support log export.
- "Other functions" column, mainly PDU software restart or restore factory settings, provide software online upgrade, MIB download.

3)PDU Status View

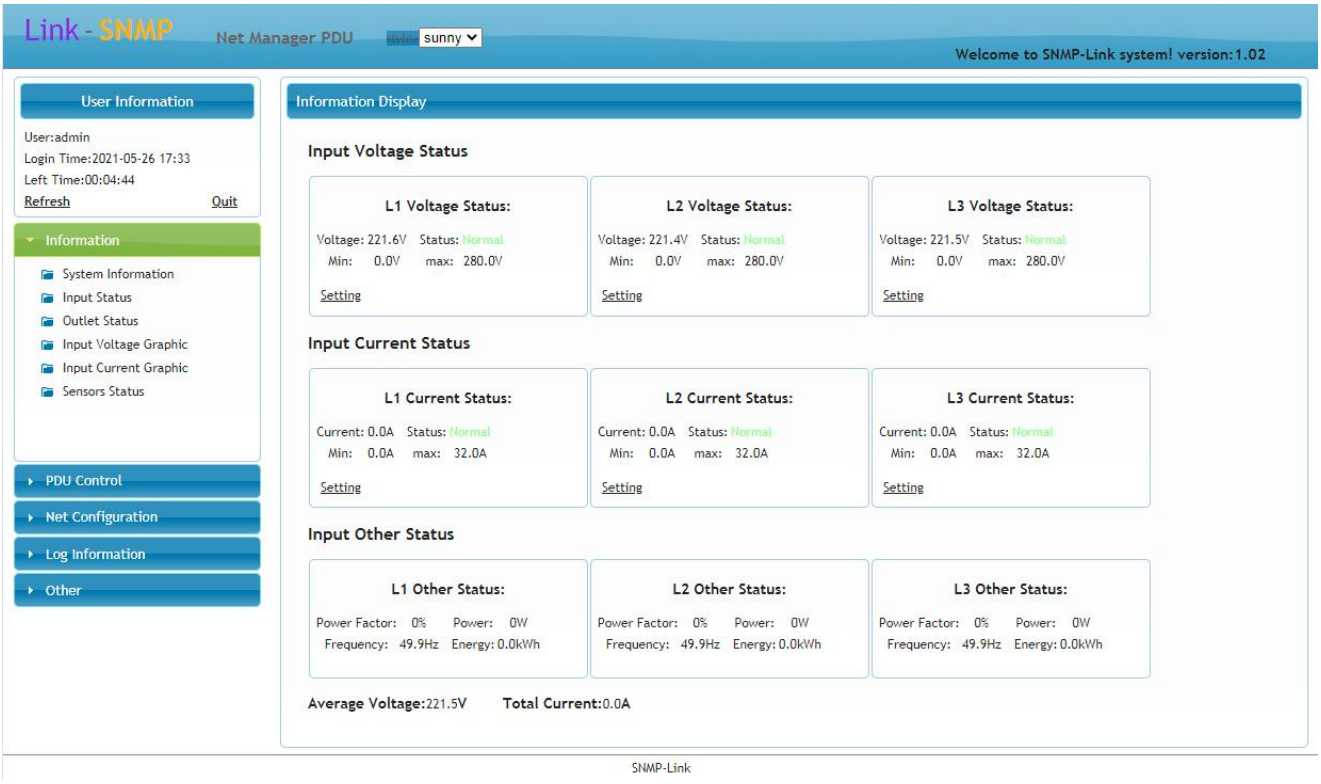
- PDU basic information view

This page can view PDU basic system information. Contains version number and network information, input current, voltage, etc.



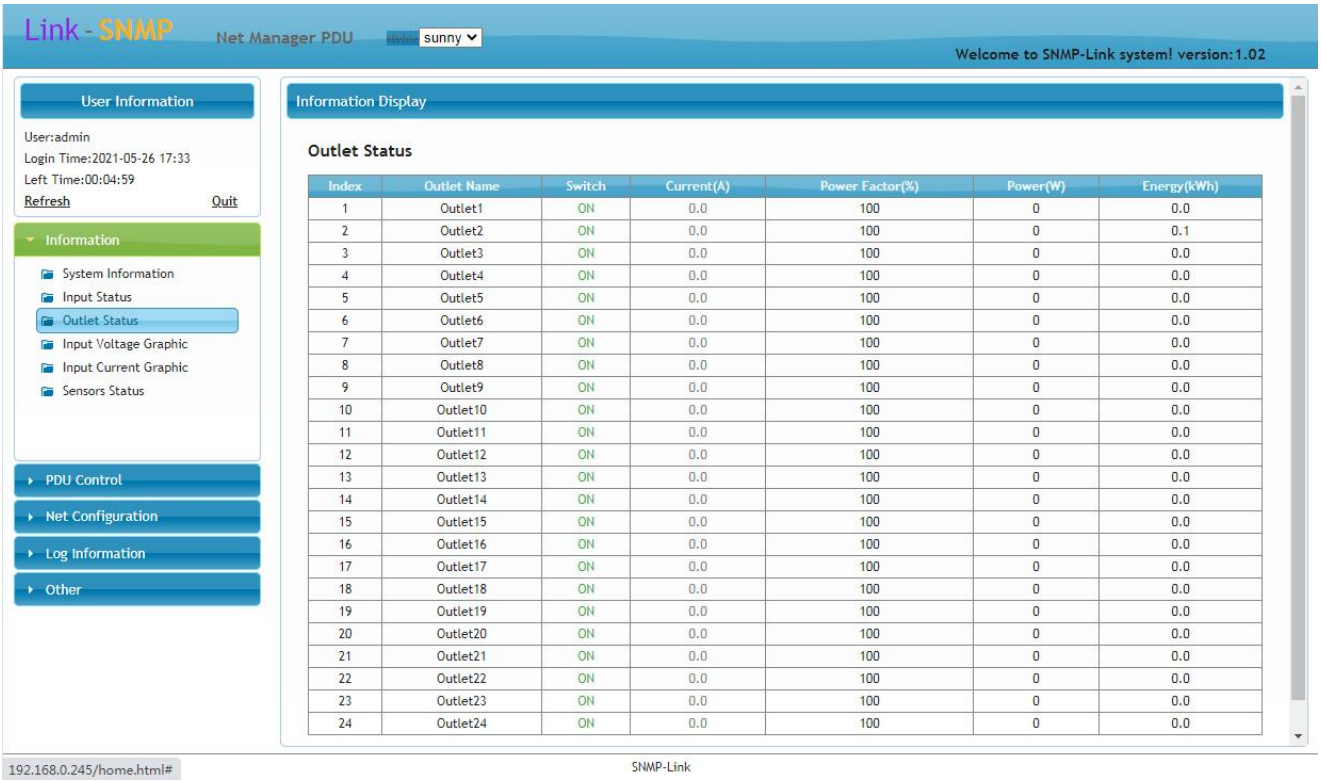
- PDU Input Status

PDU according to 8-way group to do electrical design, up to 24 sockets a total of three groups. This page can display PDU three groups of communication status and power information, horizontal 8 channels only one group, only display L1 information, other unconnected groups of status will be displayed offline. Vertical PDU up to 24 sockets can display each group of states, three-phase series L1 corresponding to R phase, L2 corresponding to the phase, L3 corresponding to the phase.



- PDU output status

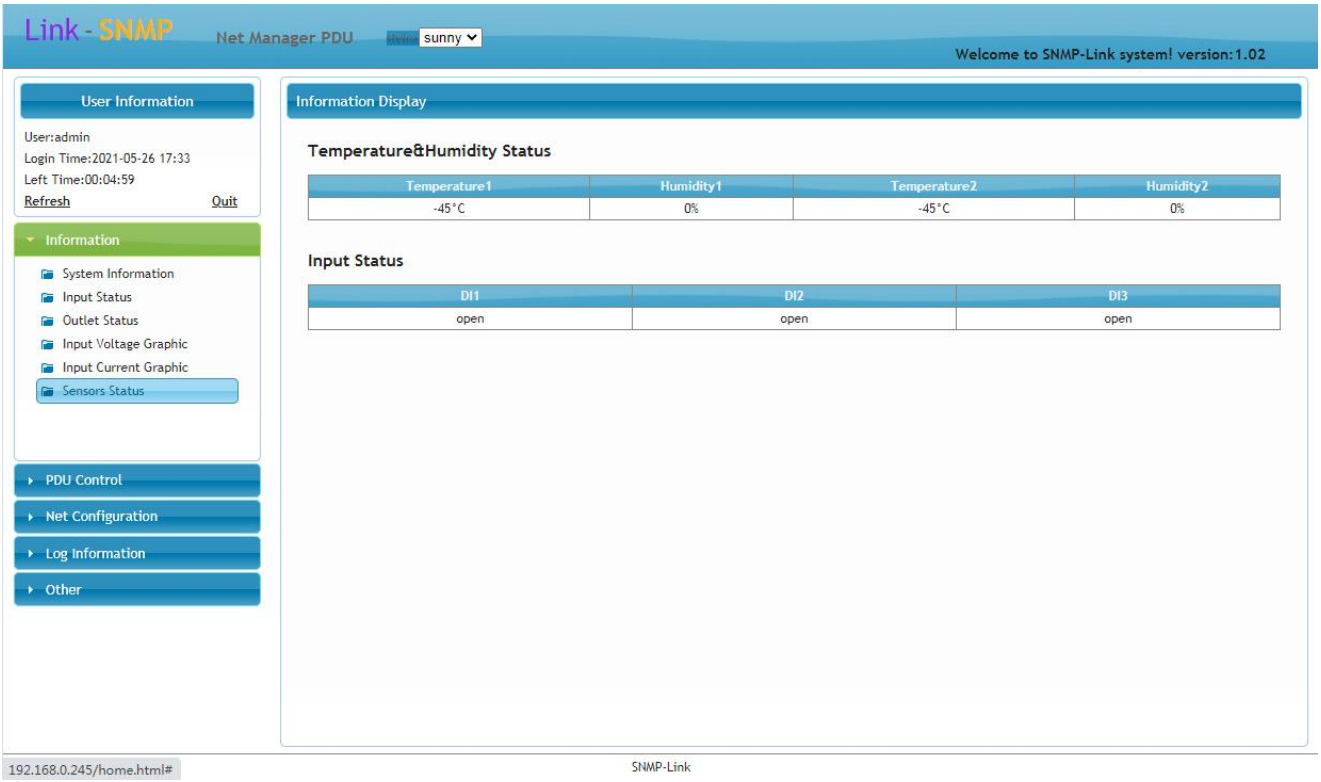
This page can display the specific status of each socket, including socket name, current, power factors, power.



- PDU graph

- PDU sensor status

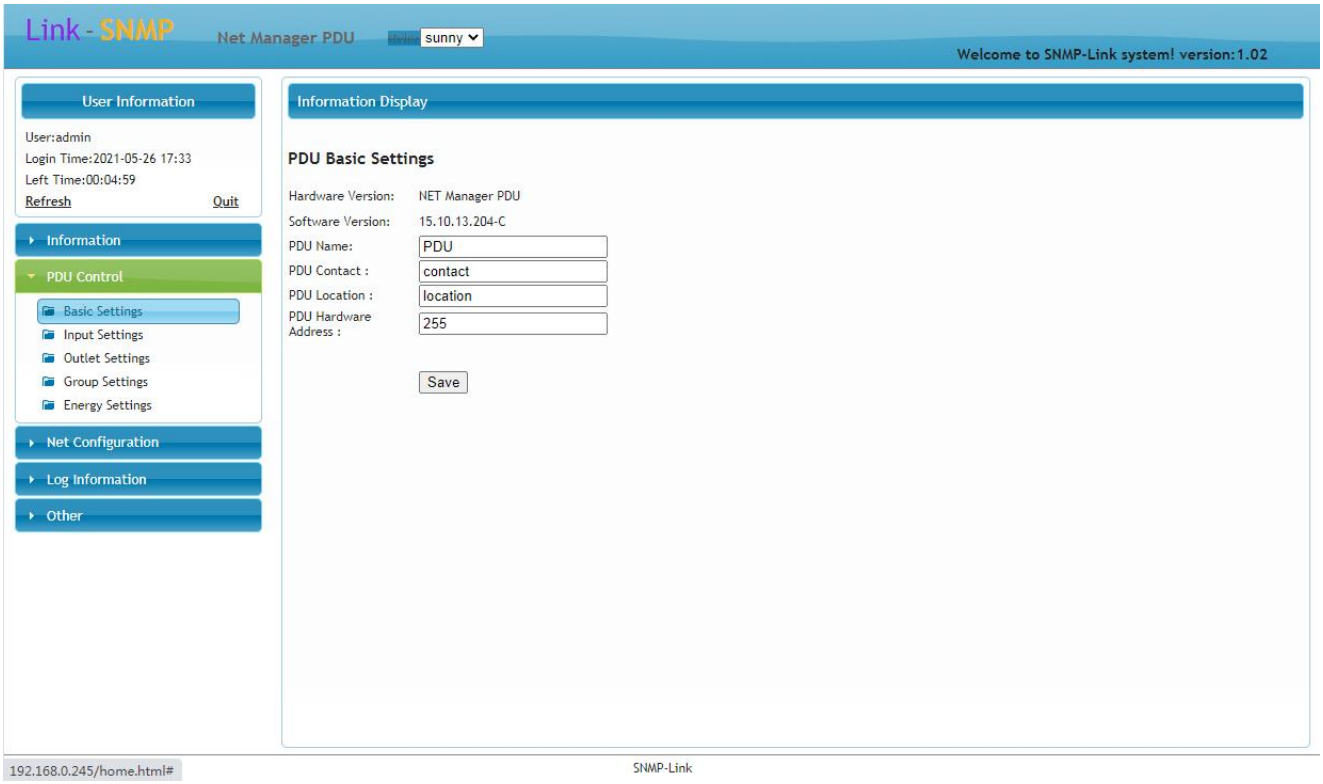
This page displays temperature, humidity and input dry contact sensor status



4) PDU function settings

- PDU device name hardware address settings

PDU device information is set in "device function control "–>" basic information settings ". Can set the device name and location information, this information can be displayed in the SNMP information.

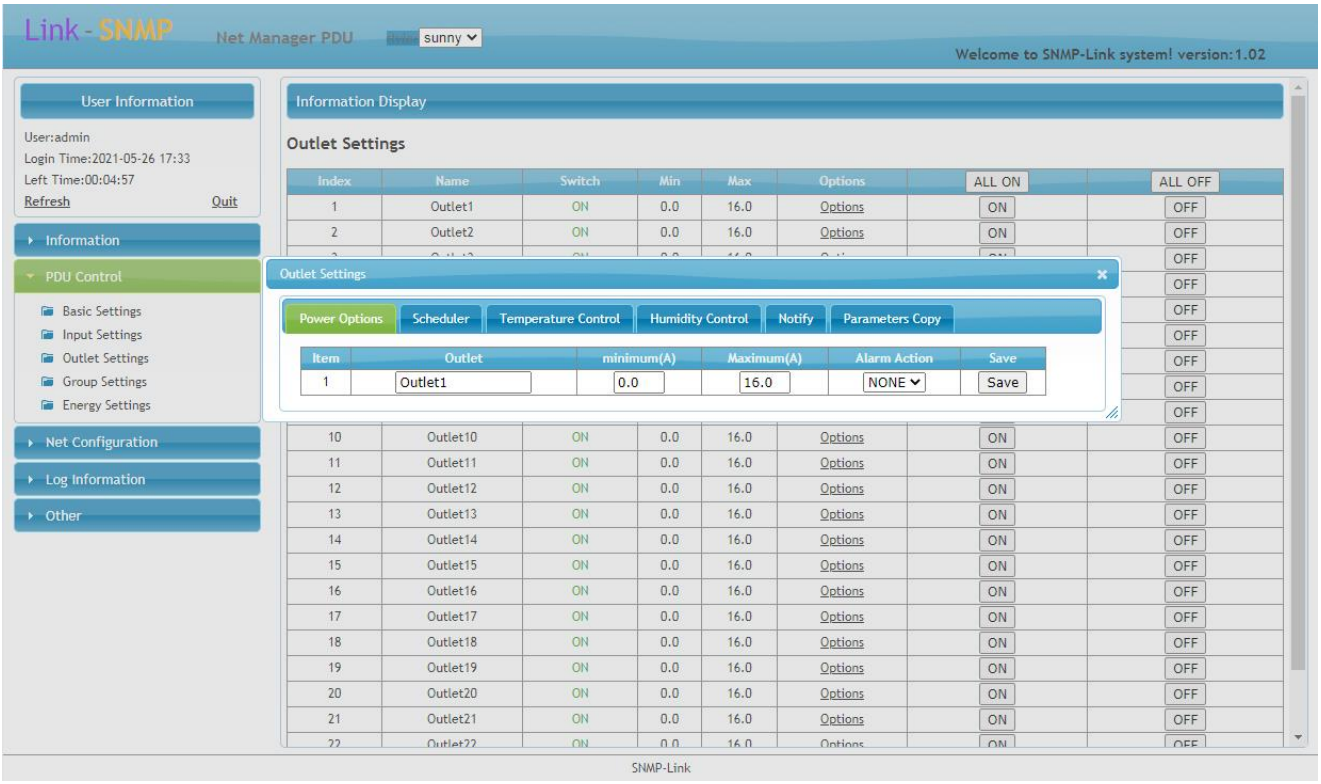


The device hardware address is the address of the MODBUS or CANBUS, and the range can be set to 1-254.

- PDU socket function settings

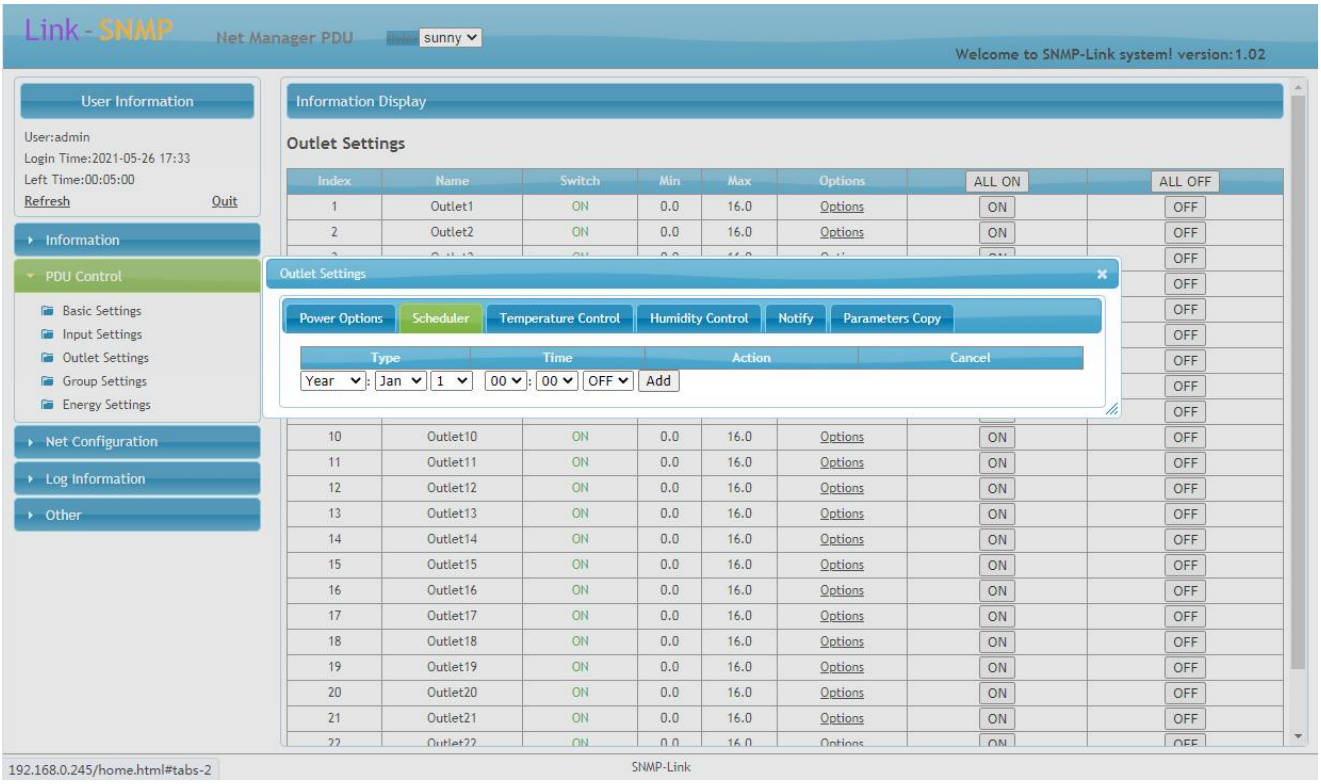
PDU socket function is set in "device function control ">" socket information setting ". For each socket can independently set the threshold, switch scheduling, threshold overrun action and so on.

Click on "socket operation" to enter the settings interface.



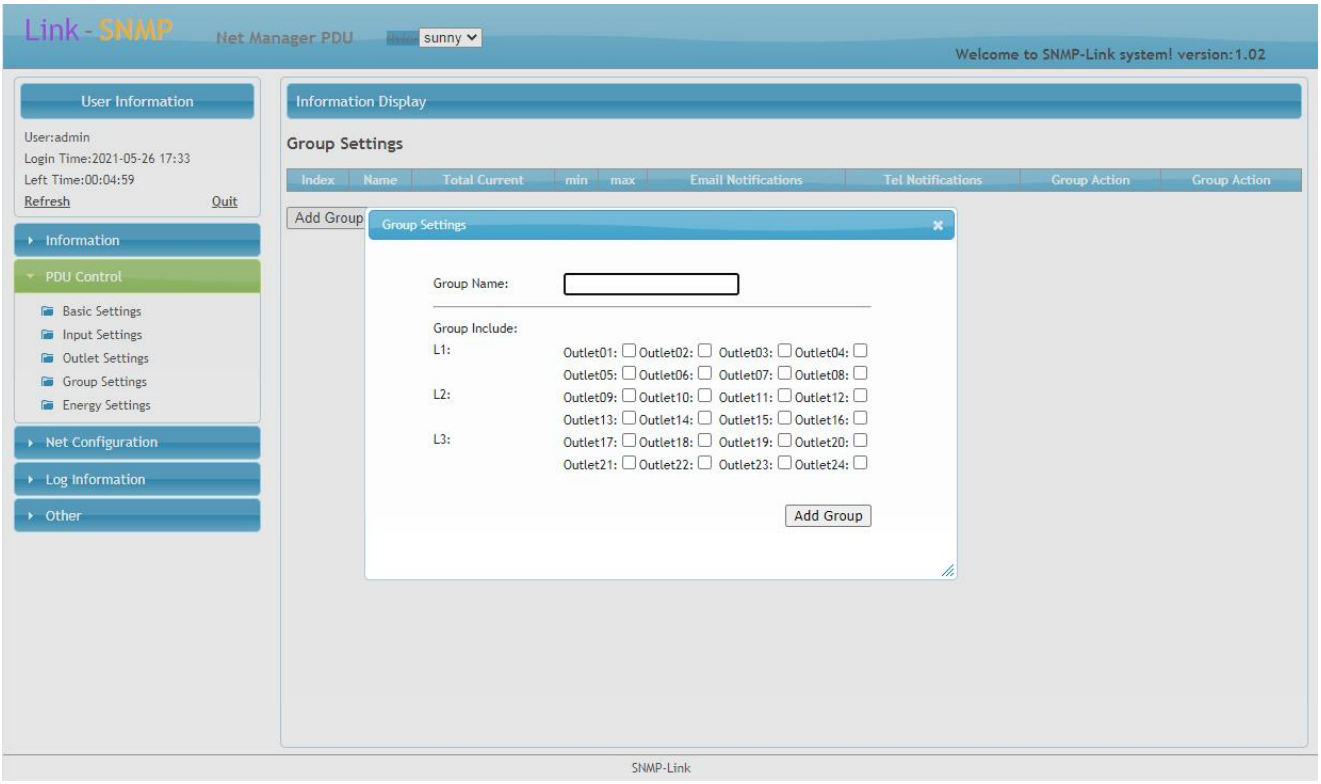
Power operation, mainly set socket alarm threshold, as well as threshold limit, socket to close the protection equipment.

Control scheduling, mainly for socket timing operation, can be accurate to the annual, monthly, daily, weekly timing operation socket.



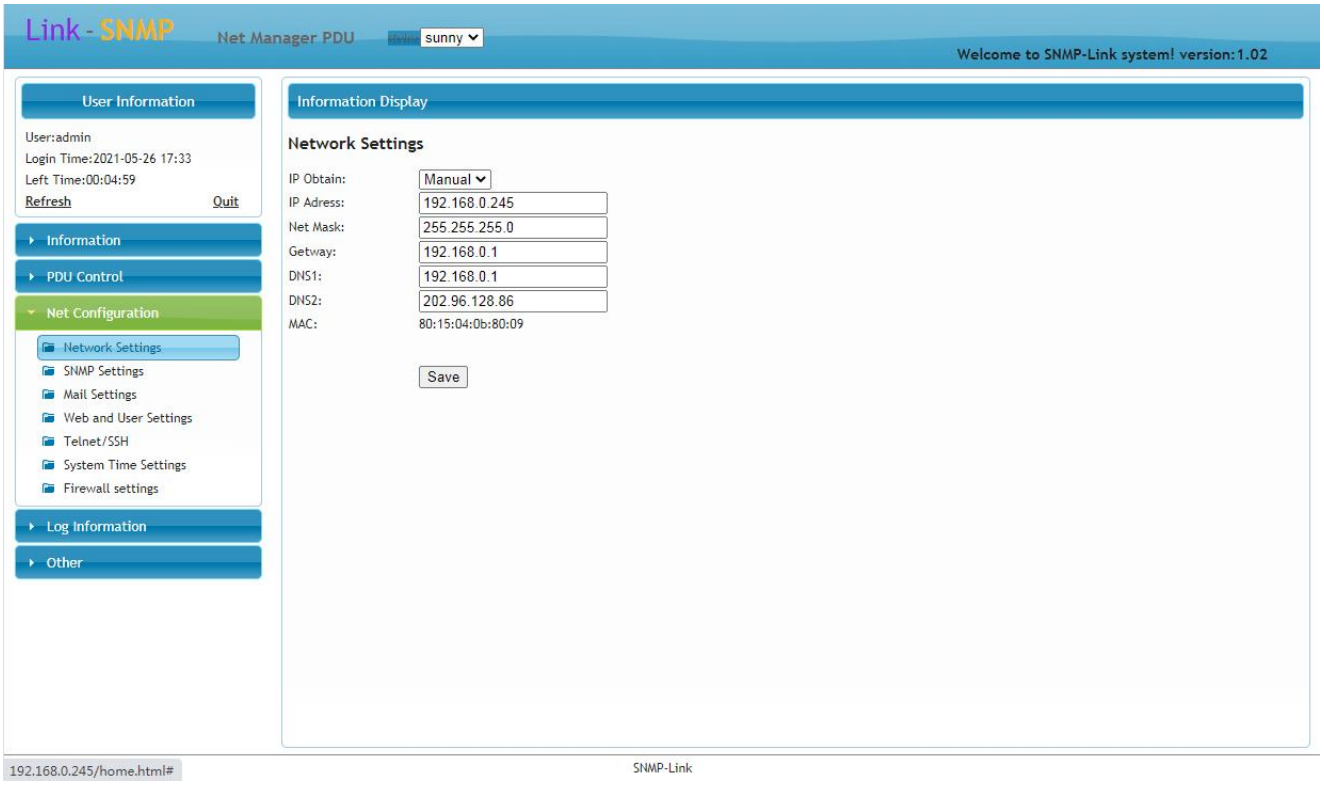
- PDU socket grouping settings

PDU socket grouping is set in "device function control "->" socket group information setting ". This function can customize the multi-channel socket to form a whole, can operate the group socket action at the same time, the socket group can also set the whole group beyond the limit threshold. Dynamic grouping, flexible customization.



- PDU Network Information Settings

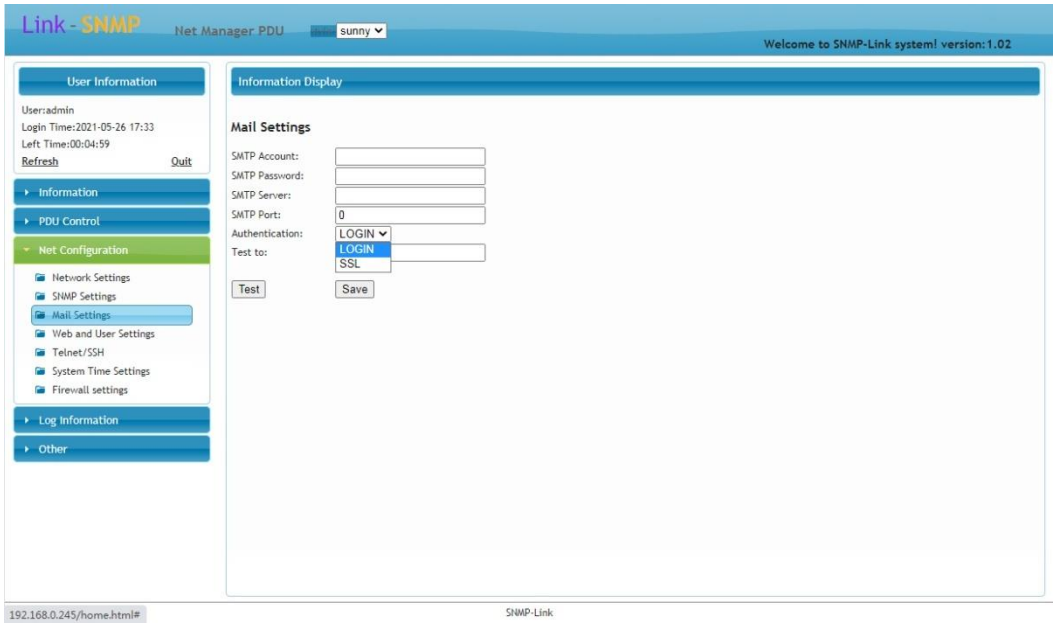
PDU network information is set in "network configuration "->" network settings ".The ability to set PDU IP address gateways and other information.



Special note: if you need mail alarm and network clock synchronization and other functions, you must set the correct DNS address. DNS is used as domain name resolution if not set correctly. PDU network can not correctly resolve to the mail server and time server network address.

- Mail function settings

PDU mail function is set in "network configuration "->" mail settings ".Can set the parameters of mail alarm.



SMTP Account： set up email alarm sender account. Take QQ mailbox as an example in the format of XXXXXX @ qq.com, length of no

more than 64 characters.

SMTP Password： set the password of the email sender account, no more than 64 characters in length. Take the QQ mailbox as an example, this password is not the default password QQ the mailbox, QQ the mailbox uses the third party mail client to send the mail need to use the dynamically generated password, its password acquisition location is in the QQ mail setting area:pending

POP3/SMTP service needs to be turned on, and then scan the QR code to generate a dynamic password.

SMTP server: set SMTP mail server address. Take QQ mailbox as an example, the address is smtp.qq.com. To ensure that the domain name is resolved correctly, be sure to fill in the IP address and DNS. of the WAN in the network settings

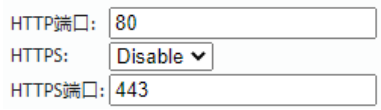
SMTP port: set SMTP server port. Take QQ mailbox as an example, the port uses LOGIN non-encrypted mode is 25, SSL encryption mode 465. According to the SMTP provided by the service provider, please check carefully.

Authentication mode: select the authentication mode of SMTP mail server, LOGIN login mode for ordinary account, SSL encryption mode, according to the mode provided by server provider.

Test mailbox: fill in the receiving mail address for testing. For testing. Click the Test button to test whether messages can be sent or received.

- HTTP and web management account settings

HTTP and web management accounts are set in "network configuration "–>" web pages and user settings ".Able to set web end management account and web access.

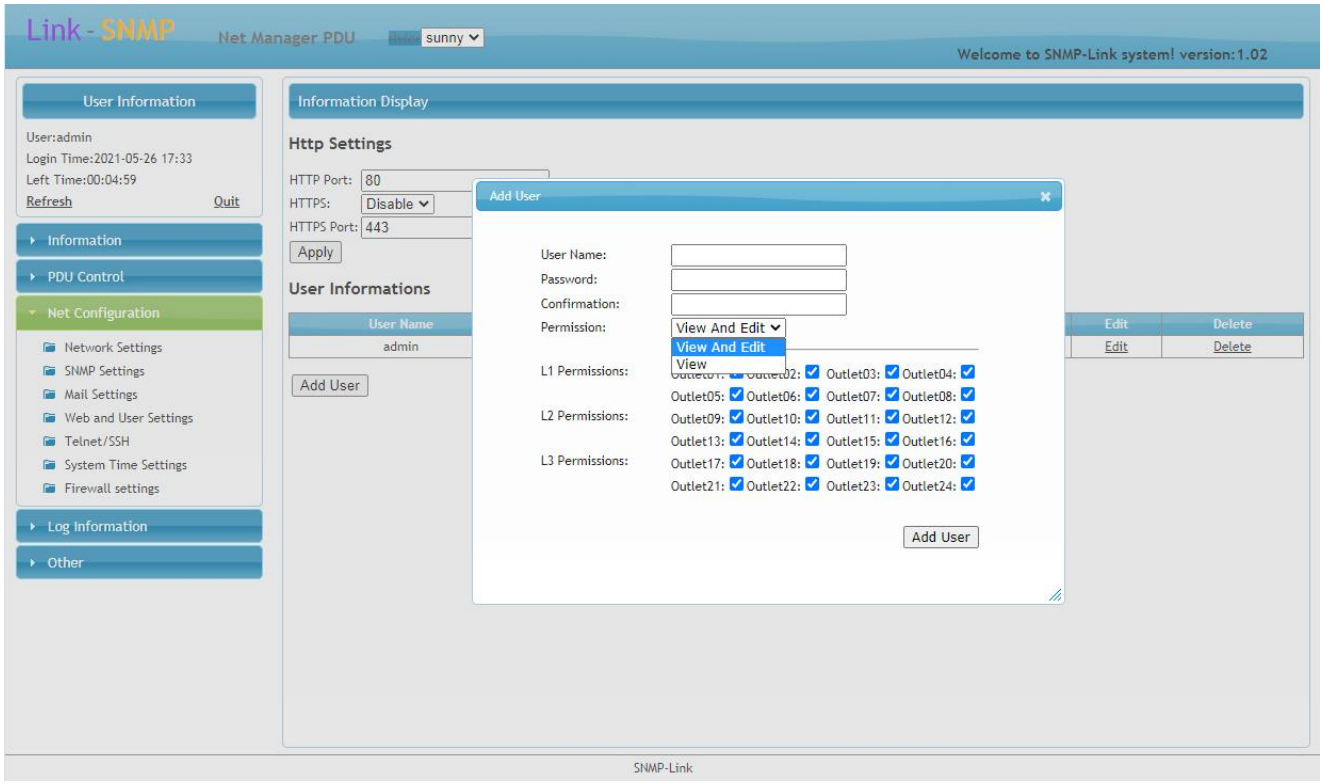


HTTP port and HTTPS port are the ports used to set up the web service, turn on the HTTPS function, you need to use the HTTPS way to access, take 8080 as an example, enter the following in the browser:

http://192.168.1.100:8080

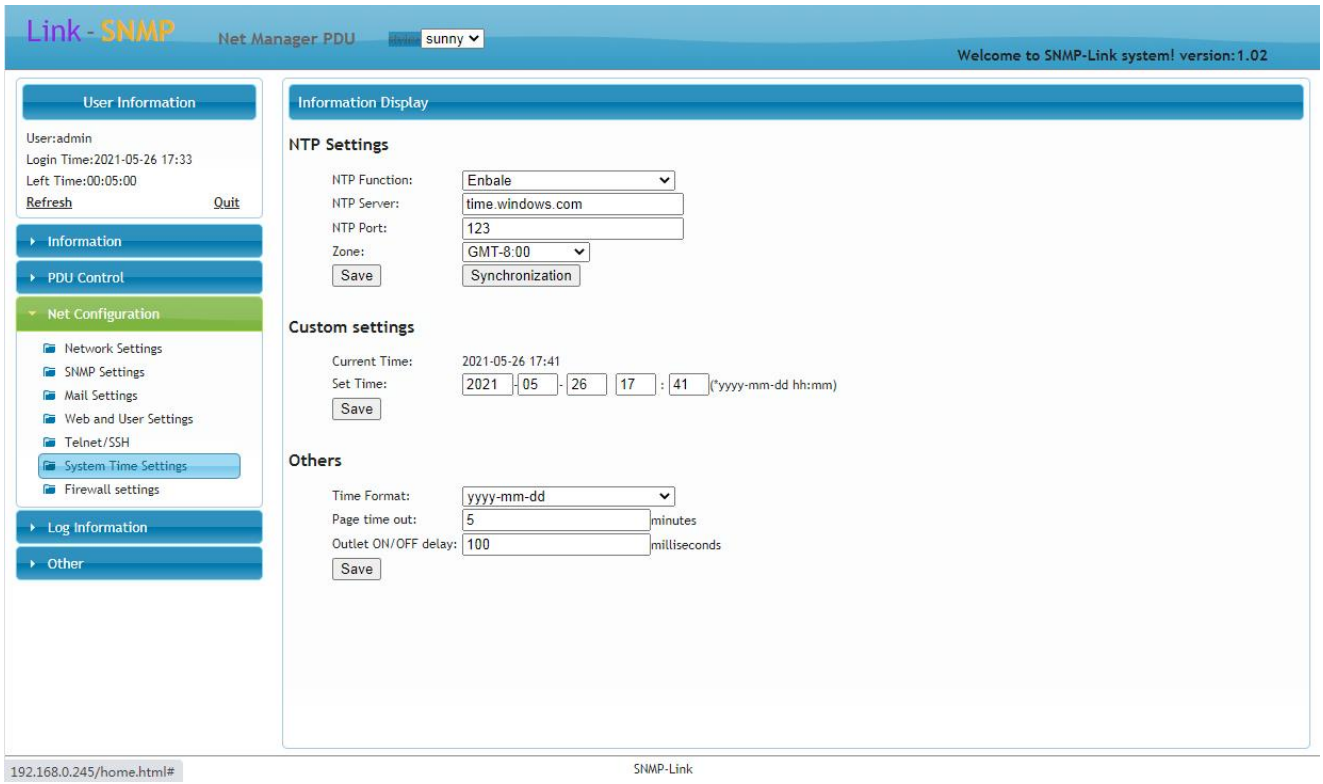
https://192.168.1.100:8080

web management account can set administrator and view permissions. Administrator can set up, view account cannot be set. The first account can only be set to an administrator. New users need to click on new users. Need to delete, click on the list to delete the link confirmation can be deleted. The first administrator account cannot be deleted. Socket permissions can also be assigned to each bit.



- System time settings

system time set at "network configuration "->" system time setting ". System time supports network time synchronization and manually setting device time.



When the NTP service is turned on, the device connects to the NTP server at 0 am to achieve time synchronization. NTP server setting the address of the time server, be sure to fill in the IP address and DNS. of the WAN in the network settings The common time server port is 123. Click "synchronize" to synchronize the time immediately. You can really set it correctly.

- Firewall Settings

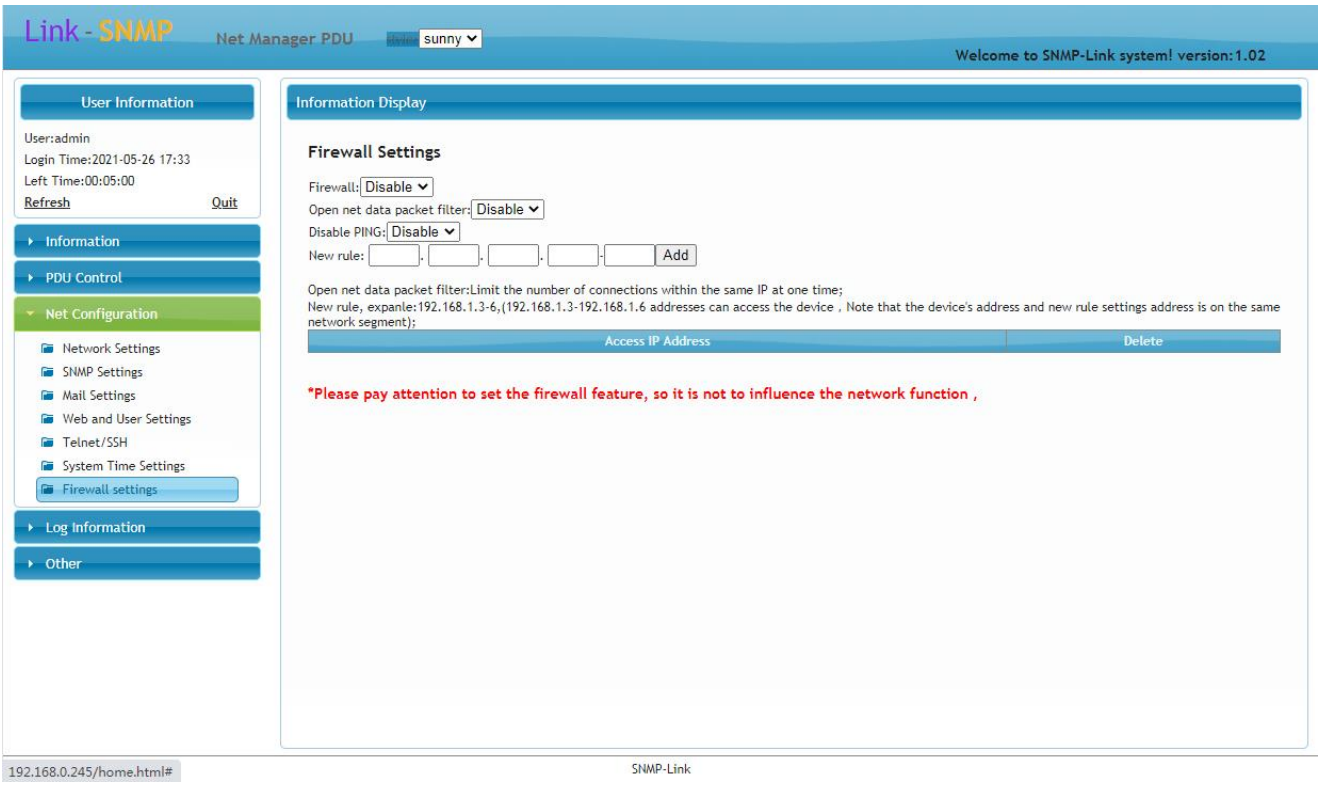
Firewall set in "Network Configuration "->" Firewall Settings ".

Turn on the firewall function, the setting takes effect.

If you turn on packet filtering, you can prevent network storm attacks. The device will limit the number of network connections, not because of too much data, too frequent connections cause data congestion, increase delay.

Turn on the anti- PING function, can prevent the network PING instructions.

If the network access rule is turned on, the device can only be accessed at the address within the address segment that can be accessed. If this function is turned on, make sure the client address is within the regular address, otherwise the device will not be accessible. If you want to remove the reset PDU settings only by key reset, please note.



- SNMP settings

SNMP set at "network configuration "->" SNMP settings ". SNMP support V1, V2C, V3, V3 options are not set if only V1 and V2C are required. SNMP trap send unified use V2C send. PDU private SNMP OID definition:

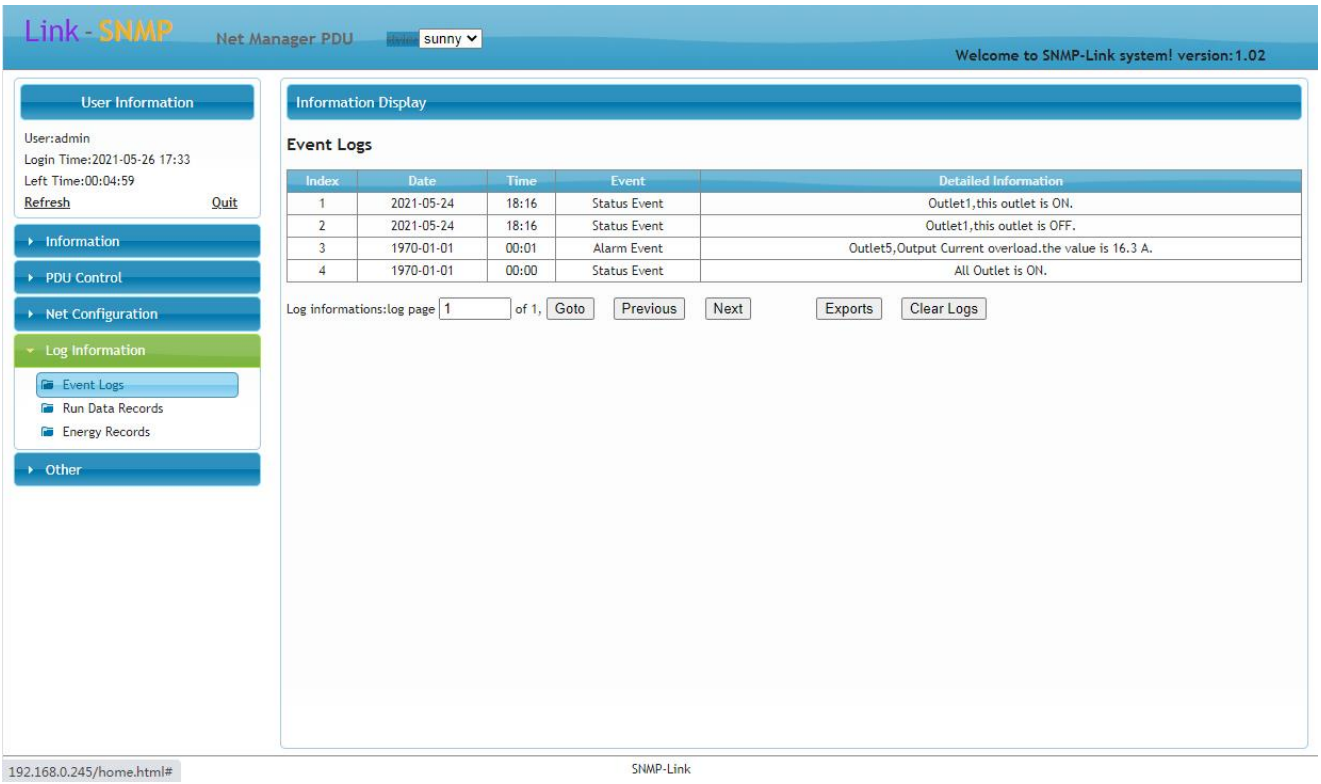
OID	Definition	Remarks
.1.3.6.1.4.1.45514.1.1.1	Hardware version of equipment	Read only
.1.3.6.1.4.1.45514.1.1.2	Equipment software version	Read only
.1.3.6.1.4.1.45514.1.1.3	Equipment name,	Read and write
.1.3.6.1.4.1.45514.1.1.4	Type of equipment	Read only
.1.3.6.1.4.1.45514.1.2.1	L1 input voltage	V 10 times larger

.1.3.6.1.4.1.45514.1.2.2	L1 input current	A 10 times larger
.1.3.6.1.4.1.45514.1.2.3	L1 Input Power Factor	Read only, enlarge 100 times
.1.3.6.1.4.1.45514.1.2.4	L1 input power	W units
.1.3.6.1.4.1.45514.1.2.5	L1 Input power	kWh 10 times larger
.1.3.6.1.4.1.45514.1.2.6	L1 input frequency	Read only, unit Hz magnified 100 times
.1.3.6.1.4.1.45514.1.2.7	L1 input voltage	V 10 times larger
.1.3.6.1.4.1.45514.1.2.8	L1 input current	A 10 times larger
.1.3.6.1.4.1.45514.1.2.9	L1 Input Power Factor	Read only, enlarge 100 times
.1.3.6.1.4.1.45514.1.2.10	L1 input power	W units
.1.3.6.1.4.1.45514.1.2.11	L1 Input power	kWh 10 times larger
.1.3.6.1.4.1.45514.1.2.12	L1 input frequency	Read only, unit Hz magnified 100 times
.1.3.6.1.4.1.45514.1.2.13	L1 input voltage	V 10 times larger
.1.3.6.1.4.1.45514.1.2.14	L1 input current	A 10 times larger
.1.3.6.1.4.1.45514.1.2.15	L1 Input Power Factor	Read only, enlarge 100 times
.1.3.6.1.4.1.45514.1.2.16	L1 input power	W units
.1.3.6.1.4.1.45514.1.2.17	L1 Input power	kWh 10 times larger
.1.3.6.1.4.1.45514.1.2.18	L1 input frequency	Read only, unit Hz magnified 100 times
. 1.3.6.1.4.1.45514.1.3.1	L1 minimum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.2	L1 maximum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.3	L1 minimum input current	Read and write, unit A magnified 10 times
. 1.3.6.1.4.1.45514.1.3.4	L1 maximum input current	Read and write, unit A magnified 10 times
. 1.3.6.1.4.1.45514.1.3.5	L2 minimum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.6	L2 maximum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.7	L2 minimum input current	Read and write, unit A magnified 10 times
. 1.3.6.1.4.1.45514.1.3.8	L2 maximum input current	Read and write, unit A magnified 10 times
. 1.3.6.1.4.1.45514.1.3.9	L3 minimum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.10	L3 maximum input voltage	Read and write, unit V magnified 10 times
. 1.3.6.1.4.1.45514.1.3.11	L3 minimum input current	Read and write, unit A magnified 10 times
. 1.3.6.1.4.1.45514.1.3.12	L3 maximum input current	Read and write, unit A magnified 10 times
.1.3.6.1.4.1.45514.1.4.1-24	Socket Name	Read and write

.1.3.6.1.4.1.45514.1.5.1-24	Socket current	A 10 times larger
.1.3.6.1.4.1.45514.1.6.1-24	Power factor for sockets	Read only, enlarge 100 times
.1.3.6.1.4.1.45514.1.7.1-24	Electrical power	Read only, enlarge 100 times
.1.3.6.1.4.1.45514.1.8.1-24	Minimum current in socket	Read and write, unit A magnified 10 times
.1.3.6.1.4.1.45514.1.9.1-24	Maximum current of socket	Read and write, unit A magnified 10 times
.1.3.6.1.4.1.45514.1.10.1-24	Socket switch status	Read and write 1: on 0: off
.1.3.6.1.4.1.45514.1.11.1	Temperature 1	Read only,
.1.3.6.1.4.1.45514.1.11.2	Humidity 1	Read only,
.1.3.6.1.4.1.45514.1.11.3	Temperature 2	Read only,
.1.3.6.1.4.1.45514.1.11.4	Humidity 2	Read only,
.1.3.6.1.4.1.45514.1.11.5	Dry interface 1 input	Read only,
.1.3.6.1.4.1.45514.1.11.6	Dry interface 2 input	Read only,
.1.3.6.1.4.1.45514.1.11.7	Dry interface 3 input	Read only,
.1.3.6.1.4.1.45514.3.12.1	T rap OID sent	

- Log management

log management in "logging ".Logs support event logs and data logs. Log export is supported.

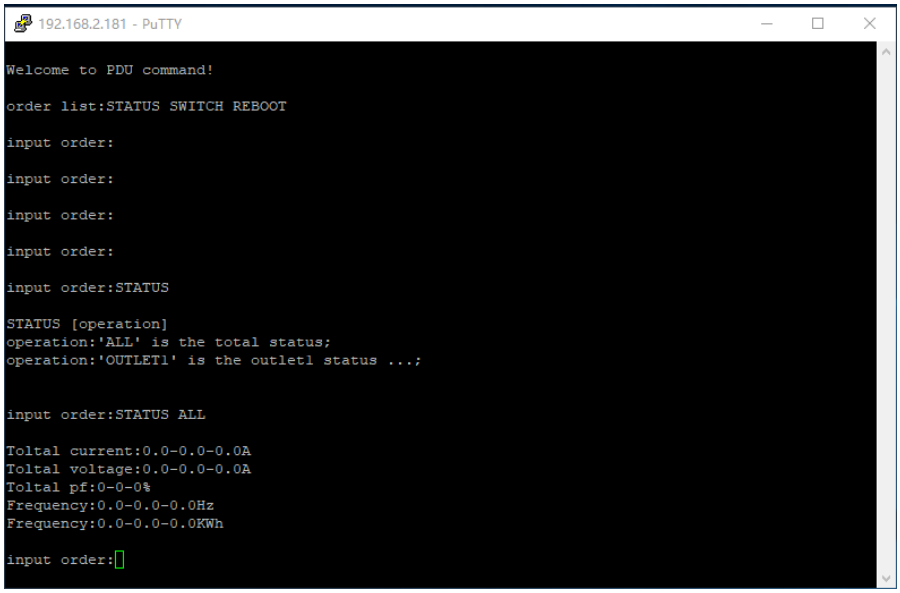


Special note: data logs are recorded in the cache every 10 minutes. In order to increase the service life of device flash, data records

are written flash. at 12:00 and 0:00

- telnet/SSH

A command-line access PDU, enabling a command-line account and password to access the device



STATUS instruction user to view device status. SWITCH instruction is used to operate the socket switch. Complete the operation according to the command line prompt.

- Other settings and operations

Additional settings and operations support PDU software restart and reset, and remote upgrades. Please use our upgrade package, do not disconnect the power during the upgrade process, upload the upgrade file, at least 45 seconds can try to log in to see if the upgrade is successful.

PDU MIB file download is also supported in this item. If necessary, please download it yourself.