
Netmatelite

Basic Web-based Netmatelite for UPS

User's Manual Of Netmatelite

Installation Requirement

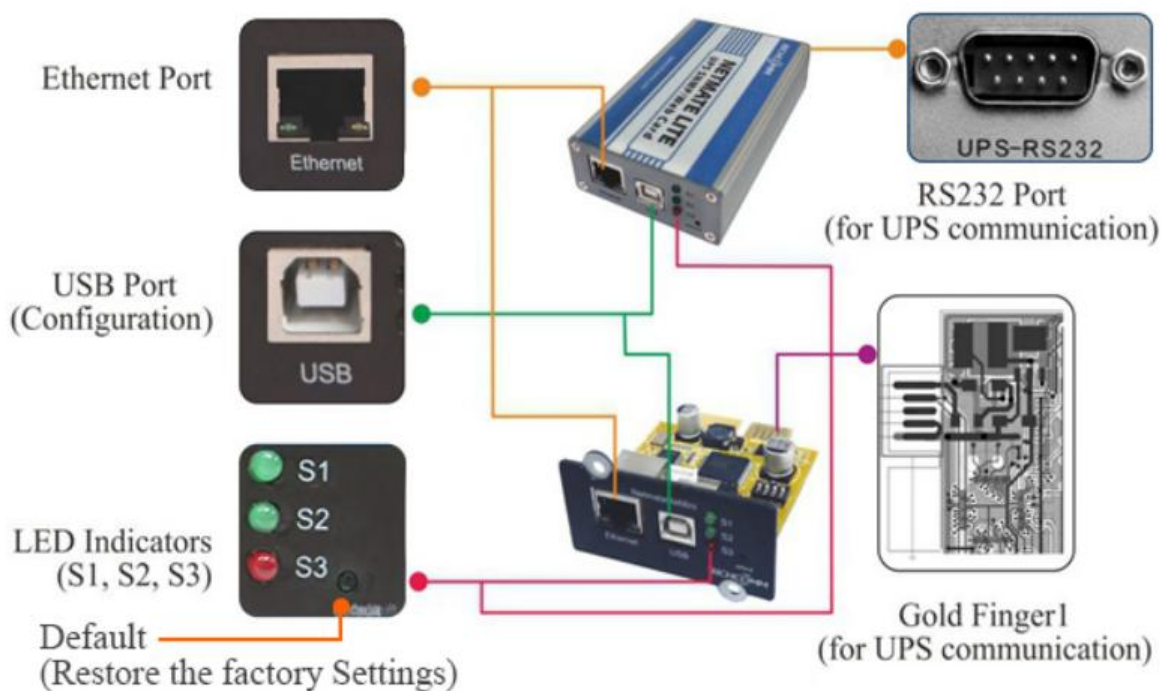
- The UPS with RS232 port or internal slot;
- The computer(best administrators computer) with Ethernet port;
- A complete network environment.

Note: Please read this user manual before installation.

1. Ports Definition

SNMP Card Lite Mini1/SNMP Card Lite Mini2 Available

NetmateLite/NetmateLite Mini/NetmateLite SE Available



- ① Ethernet Port: UTP 10/100M RJ45 Ethernet port;
- ② PW (Red): Power status indicator, constantly on mean power connected well, no light means no power connected;
- ③ S1 (Green): Running indicator, slow flash is normal;

④ S2 (Green): Running/SNMP indicator, slow flash is normal, flash frequency is determined by SNMP inquire cycle;

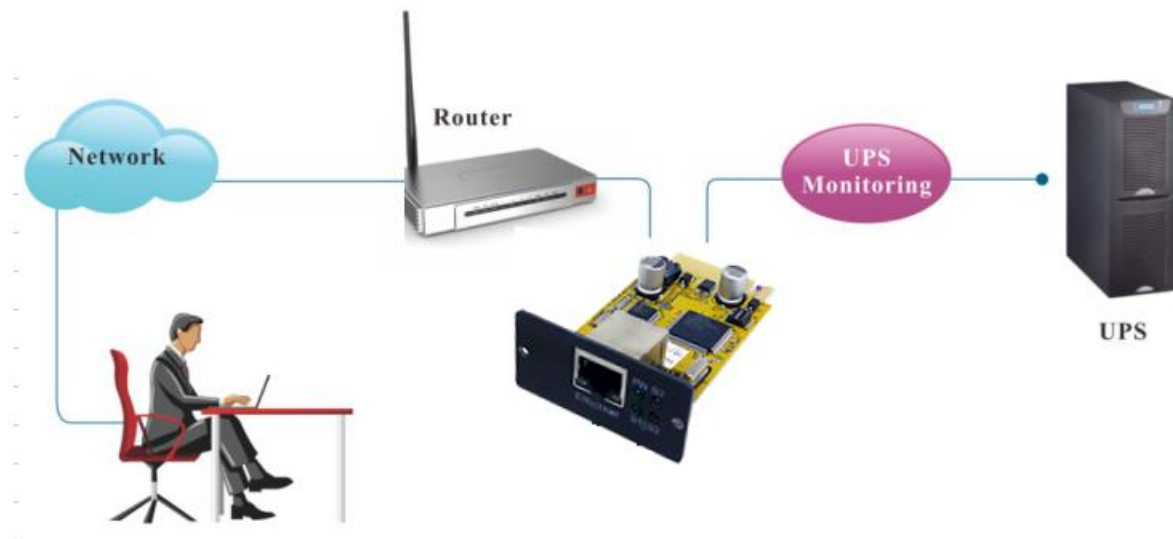
⑤ S3 (Red): Device status indicator (red), constantly on means connected well with UPS and have data communication, flash means disconnected or UPS communication failed;

⑥ 4 Pin Serial Port: Connect with UPS;

⑦ Gold Finger: Insert into UPS internal slot.

2. Installation

2.1 Network Diagram

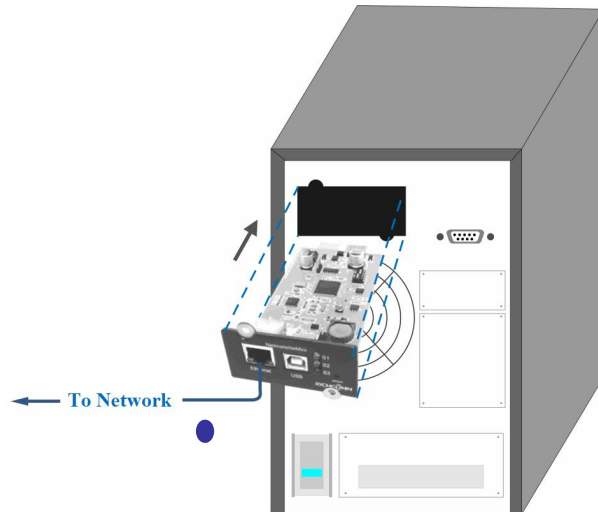


2.2 Hardware Installation

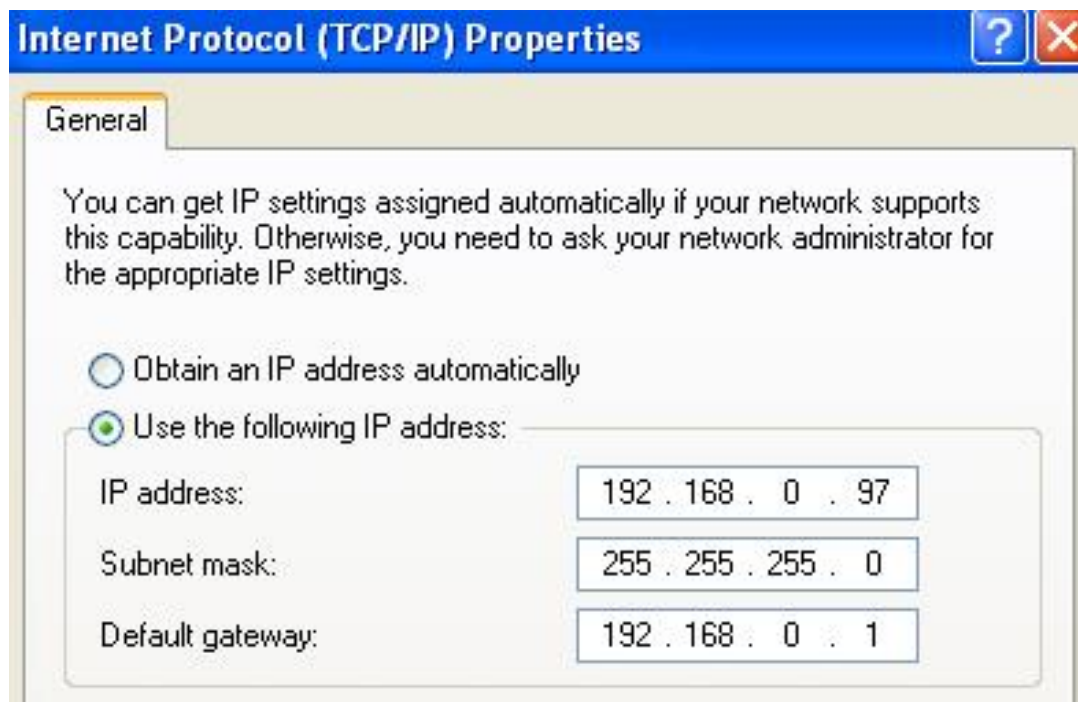
Internal SNMP Cards

Procedure:

- ① Insert internal SNMP card to UPS slot
- ② Use T568B network cable connect to network



2.3 Set Network Segment



For initial configuration, first we should set a same network segment before sign in web interface, since default IP is: **192.168.0.100**, so network segment should be set as **192.168.0.XXX**

2.4 Command “ping”

Before sign in the web interface, we can check the default IP address whether available in your network by command “ping”

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time=5ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255
Reply from 192.168.0.100: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 5ms, Average = 1ms

C:\Documents and Settings\Administrator>
```

Ping Pass

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ping 192.168.0.100

Pinging 192.168.0.100 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\Documents and Settings\Administrator>
```

Ping Fail

2.5 Sign in Web Monitoring Interface



172.16.89.220

All above steps finished, open a web browser(suggest IE/firefox/chrome etc), input default IP address **192.168.0.100**

Sign in

http://172.16.89.220

Your connection to this site is not private

Username

Password

Input user name and password , default user name & Password are both “**admin**”.

(User name and Password by can be change by setting)

2.6 Web Monitoring Interface

After input the user name and password, the monitoring homepage will display, then we can check the UPS current status and start software setting

The screenshot displays the UPS monitoring interface. On the left is a dark sidebar menu with options: UPS Information (expanded), System Information, Device Information, Current Status, Remote Control, Parameter Settings, and History Record. The main content area shows:

- Input Voltage: 220.0 V
- Frequency: 50.0 Hz
- Total Batt Voltage: 2.20 V
- Battery Capacity: 88.0 %
- Temperature: 35.0 °C
- Output Voltage: 220.0 V
- Max Output Voltage: 220.0 V
- Min Output Voltage: 220.0 V
- Output Load: 34.0 %

A central diagram shows a bypass circuit with a 'RECTIFIER' and an 'INVERTER' connected to a 'BYPASS' line.

Current Running Status

Connection Status	Device Connection		
AC Status	AC Normal	Battery Status	Battery Voltage Normal
Running Status	Invert	UPS Status	UPS Normal
UPS Type	Online	Testing Status	Non-testing
On-Off Status	Normal Output	Beeper Status	Off

<Home page>

3. Software Setting Introduction

3.1 UPS Information

Sub-Menu:

- System Information
- Device Information

- **Current Status**
- **Remote Control**

3.1.1 System Information

This page is to display UPS basic information and network information. The info shown here are provided by SNMP Card Lite SNMP card itself and parameter settings

IP Address	Subnet Mask	Gateway	Product Serial Number
172.16.89.220	255.255.254.0	172.16.88.1	00:00:00:00:00:0F
System Name	System Administrator	System Installation Path	
Software Version		Hardware Version	
\$Rev: 1806 \$ Dec 23 2022 16:23:09-43-RCEXV:2-0-34-0-1-ISPR-1284-0		2.00.4.1	

A, IP Address

This part will automatically display when users finish the [Network Setting]

B, Subnet Mask

This part will automatically display when users finish the [Network Setting]

C, Gateway

This part will automatically display when users finish the [Network Setting]

D, System Name

This part will automatically display when users finish the [SNMP Setting]

E, System Administrator

This part will automatically display when users finish the [SNMP Setting]

F, System Installation Position

This part will automatically display when users finish the [SNMP Setting]

G, Other information will be provided by SNMP Card Lite monitoring system

3.1.2 Device Information

This part is to display each part of device information (UPS basic information, battery information and rated information). The contents will change according to user setting and UPS real status. UPS Manufacturer/Model/Version will be provided by the UPS itself.

Manufacturer	Model	Version
richcomm	UPS SK-11A	Version1.0

Rated Output Voltage	Rated Current	Rated Battery Voltage
220.0V	100A	02.55V

Rated Frequency	Baud Rate	Battery Quantity
50.0Hz	2400	1

3.1.3 Current Status

This part is to display the UPS current running status. We can clearly know about the UPS current running status, when an abnormal alarm occurs, figures will turn in red font accordingly.

Single-phase UPS Monitoring

Input Voltage: 220.0 V

Frequency: 50.0 Hz

Total Batt Voltage: 2.20 V

Battery Capacity: 88.0 %

Temperature: 35.0 °C

BYPASS

Output Voltage: 220.0 V

Max Output Voltage: 220.0 V

Min Output Voltage: 220.0 V

Output Load: 34.0 %

Connection Status		Device Connection	
AC Status	AC Normal	Battery Status	Battery Voltage Normal
Running Status	Invert	UPS Status	UPS Normal
UPS Type	Online	Testing Status	Non-testing
On-Off Status	Normal Output	Beeper Status	Off

Basic Information

The current figures like Input Voltage/Input Frequency/Battery Voltage/Battery Content/UPS Temperature/Output Voltage/Output Max Voltage/Output Min Voltage/ Current Load /Temperature and Humidity are display here.

3.1.4 Remote Control

This part is to set switch on/off control command for instant self-test, switch off, restart UPS and beeper.

The screenshot displays the 'UPS Control' interface. On the left is a dark sidebar menu with the following items: 'UPS Information' (expanded), 'System Information', 'Device Information', 'Current Status', 'Remote Control', 'Parameter Settings', and 'History Record'. The main content area is titled 'UPS Control' and contains a list of control actions, each with a radio button and a text input field:

- UPS Self Test Seconds
- UPS Self Test Till Battery Voltage Low
- Cancel UPS Self Test
- After Seconds Switch Off UPS
- After Seconds Switch Off UPS, then
After Minutes Restart UPS
- Wake Up UPS
- Switch On Beeper
- Switch Off Beeper

At the bottom of the control area are two buttons: 'OK' (blue) and 'Cancel' (green).

3.2 Parameter Setting

Sub-Menu:

- **System Settings**
- **Network Settings**
- **SNMP Settings**
- **E-mail Settings**
- **User Settings**
- **IP POWER Settings**

3.2.1 System Settings

Basic Parameter Settings

This part is to set UPS basic parameters, Baud Rate/ Offline Times/Alarm Times/Inquiry/Battery Quantity/ Battery Type/System Date Time need to be set according to real UPS information.

System Settings	
Communication Protocol:	Standard
Baud Rate:	2400
Offline Times:	3
Alarm Query Times:	3
Inquiry Interval:	1000 ms
Battery Quantity:	1
Battery Type:	2V
Battery Voltage Calibration Value:	0.00 V-Allowed Input Negative Floating Point
Battery Capacity Limitation:	0 %
Temperature Limitation:	0.0 °C
NTP Server:	0.0.0.0
Time Zone:	UTC+08:00
System Date Time:	5/12/2082 8:1:59 MM/DD/YY HH:mm:SS(12/31/2011 23:58:58)

3.2.2 Network Settings

In this page, we can modify the IP address, subnet mask, gateway information, NTP server, time zone and work mode of SNMP Card Lite which according to the real network segment,(Note: IP address cannot be conflicted with other device IP in a same network).

The screenshot shows the 'Network Settings' page. On the left is a dark sidebar with a menu containing 'UPS Information', 'Parameter Settings' (expanded to show 'System Settings', 'Network Settings', 'SNMP Settings', 'Email Settings', 'User Settings', and 'IPPOWER Settings'), and 'History Record'. The main content area has a title 'Network Settings' and a form with the following fields: 'IP Address' (172.16.89.220), 'Subnet Mask' (255.255.254.0), 'Gateway' (172.16.88.1), 'Primary DNS Server' (8.8.8.8), 'Secondary DNS Server' (0.0.0.0), and 'Work Mode' (AUTO). At the bottom of the form are two buttons: 'OK' and 'System Reboot'.

3.2.3 SNMP Settings

This page is for relevant settings, SNMP system should be match with SNMP software, including Basic Settings, Authorization Settings and TRAP Settings.

Basic Setting

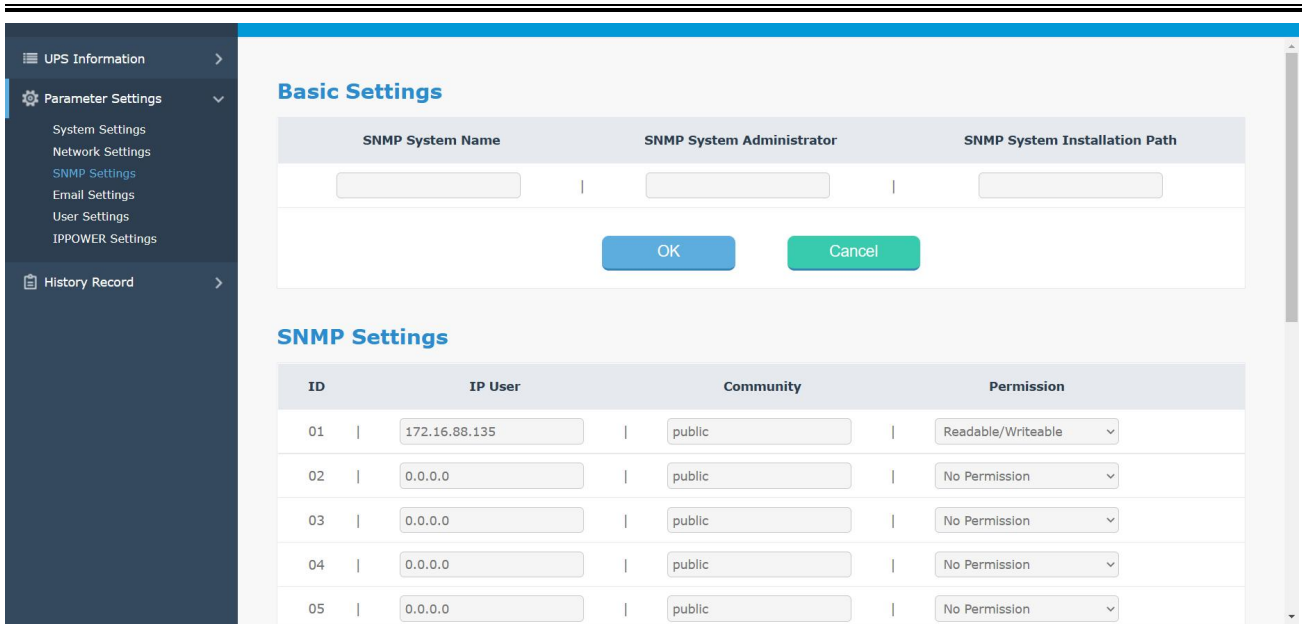
The screenshot shows the 'Basic Settings' page for SNMP. The sidebar is identical to the previous screenshot. The main content area has a title 'Basic Settings' and a form with three input fields: 'SNMP System Name', 'SNMP System Administrator', and 'SNMP System Installation Path'. At the bottom of the form are two buttons: 'OK' and 'Cancel'.

A, SNMP System Name: Name this SNMP system

B, SNMP System Administrator: Set this SNMP system administrator

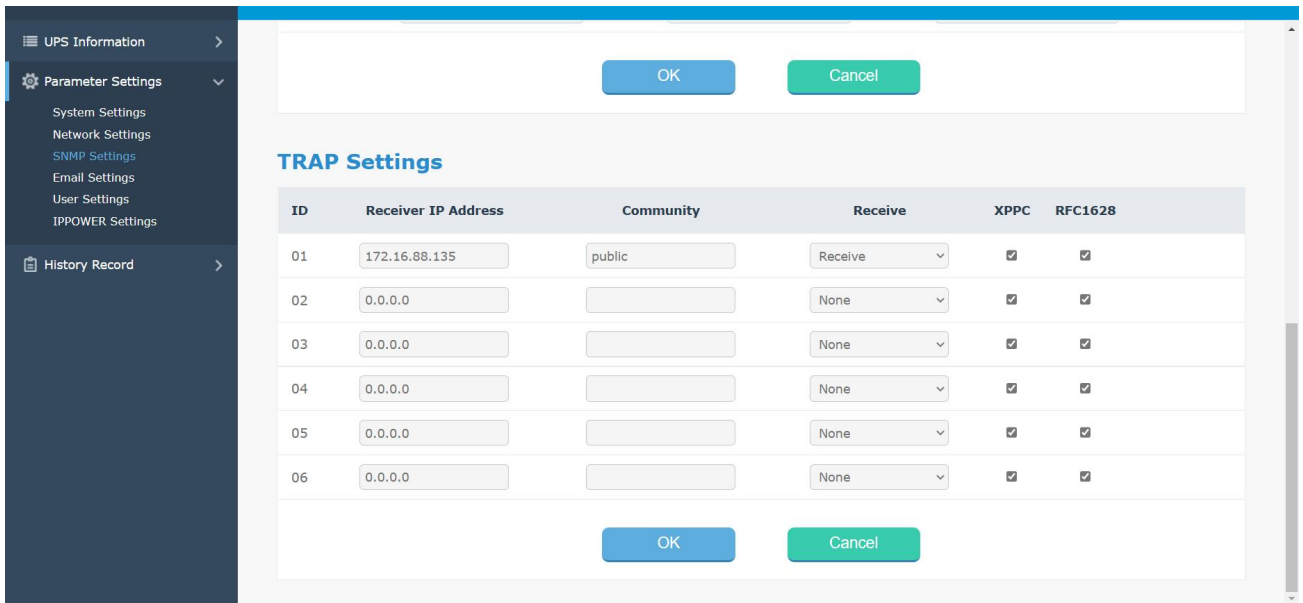
C, SNMP System Installation Path: Set SNMP system installation location

The basic settings are very convenient for central monitoring and management if exist a lot of UPS in a same network. We can fast and simply inquire every UPS by central monitoring management system(IP Power SE/IP Power Plus).



Trap Setting

The Receiver IP Address is used for receiving the Traps that sent by SNMP system. Users can set 6 Trap receivers IP addresses , support to choose whether receive the traps or not.



This part is to set SNMP user IP address, community and relevant authorization. we can set 6 SNMP user IP addresses, can choose the permissions which including No Authorization, Readable, Readable/Writable.

3.2.4 E-mail Settings

Select different email type to set email alarm.

Authentication:		USE_TLS
SMTP Server:		USE_TLS
Sender Email:		longye166@outlook.com
User Name:		longye166@outlook.com
Password:	
Port:		587

Receiver Settings		Receiver Settings			
Receiver Mailbox 1			Receiver Mailbox 2		
Receiver Mailbox 3			Receiver Mailbox 4		
Receiver Mailbox 5			Receiver Mailbox 6		

3.2.5 User Settings

This page is to set the user information.

ID	User Name	Permission	Password	Confirm Password
01	admin	Manage		
02		Check		
03		Check		
04		Check		
05		Check		
06		Check		

3.2.6 IP POWER Settings

This part is to set the authorization addresses, all authorization addresses can be remote monitoring and management via IP Power SE or IP POWER Plus. Authorization permissions including Control and Access.

User IP	Subnet Mask	Permission
0.0.0.0	0.0.0.0	Check
0.0.0.0	0.0.0.0	Check
0.0.0.0	0.0.0.0	Check
0.0.0.0	0.0.0.0	Check
0.0.0.0	0.0.0.0	Check
0.0.0.0	0.0.0.0	Check

Comm timeout reset cycle 0 Min

OK Cancel

3.3 History Event

This page is to display history events and records including the Date/Time/ Log.

Date	Time	Log Content
2082/05/12	08:00:13	System Startup
2082/05/12	07:57:52	Device Disconnection
2082/05/12	07:57:49	System Startup
2082/05/12	07:50:25	Device Disconnection
2082/05/12	07:50:22	System Startup
2082/05/12	07:48:46	Device Disconnection
2082/05/12	07:48:43	System Startup
2023/02/06	16:35:25	Device Disconnection
2023/02/06	16:35:22	System Startup

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