

Network Power Manager

User Manual

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1. Introduction

CAUTION: This unit is intended for indoor use only. Do not install near water or expose this unit to moisture. To prevent heat buildup, do not coil the power cord when in use. Do not use extension cords. Do not attempt to make any internal changes to the power source. Do not attempt to modify any portion or component.

CAUTION: Do not use power generator as input power source of PDU.

CAUTION: High-voltage surges and spikes can damage this equipment. To protect from such power surges and spikes, this unit must have a good earth ground or good power surge protection.

CAUTION: Do not exceed the AC current rating for the selected model.

CAUTION: In order to be absolutely removed from the power supply, the power cord must be unplugged from the power source.

CAUTION: This PDU contains LETHAL VOLTAGES. All repairs and service should be performed by AUTHORIZED SERVICE PERSONNEL ONLY. There are NO USER SERVICEABLE PARTS inside the PDU. The installation of options, routine maintenance, and service of this product must be performed by individuals who are knowledgeable about the procedures, precautions, and hazards associated with AC power products.

The PDU is an Internet ready device.

The PDU offers an easy set up and user-friendly communication interface to control power.

Features:

- Built-in web server, manager can real time to control power.
- Send the email and traps when outlet is turned on and off.
- Support the SNMP and provide MIB for the PDU to be managed by NMS.
- Real time to control outlets of PDU.
- Indicate outlets status with LED.
- Schedule control
- Auto reboot the locked device by pinging its IP
- Support network time protocols

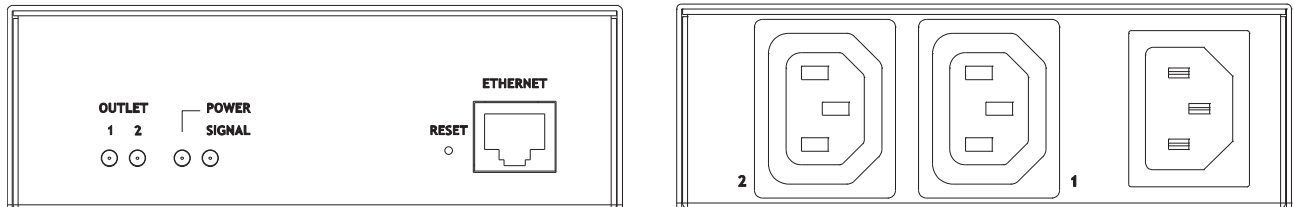
2. PDU Package

The standard PDU package contains a Power Distribution Unit with supporting hardware and software. The components of the package are:

- Network Power Manager
- CD-ROM, it contains:
- User Manual.
- MIB: Management Information Base for Network.

3. Function

Interface



Functions	Description
Ethernet	RJ45 port for network communication port.
Reset Button	<ul style="list-style-type: none"> Press reset hole by clip and wait 6 flashes of "Signal" LED; then NPS can reset back to default setting.
LED Indicator	<p>OUTLET (green): Light on means outlet is turned on.</p> <p>POWER (red): Light on means input power is working normally.</p> <p>SIGNAL (yellow): Flash after reset is pressed.</p>

Model List

Model Number	Output Connection	Input Connection	Power Cord	Voltage	Max. Output
NPS-1023J-01N1	(1) C13	Inlet C14	Power cord, C13 to C14, 1.8m	200-240V	10 Amp
NPS-1023J-02N1	(2) C13	Inlet C14	Power cord, C13 to C14, 1.8m	200-240V	10 Amp
NPS-1023J-04N1	(4) C13	Inlet C14	Power cord, C13 to C14, 1.8m	200-240V	10 Amp
NPS-1511A-01N1	(1) 5-15R	Inlet C14	Power cord, C13 to 5-15P, 1.8m	100-127V	15 Amp
NPS-1511A-02N1	(2) 5-15R	Inlet C14	Power cord, C13 to 5-15P, 1.8m	100-127V	15 Amp
NPS-1511A-04N1	(4) 5-15R	Inlet C14	Power cord, C13 to 5-15P, 1.8m	100-127V	15 Amp

4. Installation

The default setting for the way to get IP address is fixed IP. It is 192.168.0.200

Note:

TO SETUP THE NETWORK SYSTEM FOR PDU, STRONGLY RECOMMAND TO BUILD UP THE POWER MONITORING NETWORK SYSTEM ISOLATED WITH THE OTHERS, IN ORDER TO KEEP THE STABILITY OF GETTING POWER INFORMATION AND SYSTEM OPERATION.

Note:

The output can only be connected to a single device. Do not use extension cords to power multiple sets of devices.

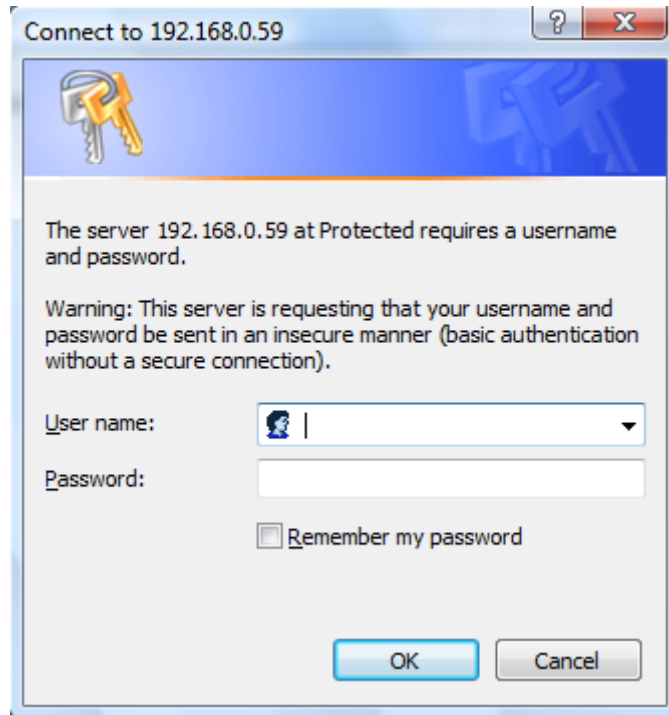
5. Web Interface

Login:

Input the PDU IP address in web browser.

Default ID is snmp.

Password is 1234.



Information: System

Indicate PDU system information, including:

Model No.


Firmware Version

MAC Address

System Name

System Contact

Location

 PDU		
Information	Model No.	NPS-1023J-02N1
System	Firmware Version	s4.82-120215-2s
Control	MAC Address	00:06:18:75:01:47
Outlet	System Name	<input type="text" value="PDU"/>
Schedule	System Contact	<input type="text" value="Admin"/>
Ping Action	Location	<input type="text" value="Office"/>
Configuration		<input type="button" value="Apply"/>
PDU		
User		
Network		
Mail		
SNMP		
Time		

Control: Outlet


Indicate PDU outlet on/off status and control outlet.

Select the outlet by checking the box and then click ON or OFF button to control output power for PDU

ON: Press the icon to turn on the assigned outlets.

OFF: Press the icon to turn off the assigned outlets.

OFF/ON: Press the icon to reboot the assigned outlets.

 PDU			
Information	System		
Control	OutletA	ON	<input type="checkbox"/>
	OutletB	ON	<input type="checkbox"/>
Outlet			
Schedule	<input type="button" value="ON"/>	<input type="button" value="OFF"/>	<input type="button" value="OFF/ON"/>
Ping Action			
Configuration			
PDU			
User			
Network			
Mail			
SNMP			
Time			

Control: Schedule

Control the assigned outlet by pre-set schedule.


Outlet: Assign the outlet that want to be controlled in this schedule.

Every: Set week's day, assigned day or every day.

Date: When select "sgl" at column of "Every", need to input the truly date here.

Action:	Begin:	End:
ON	Turn on outlet at this time	None
OFF	Turn off outlet at this time	None
OFF/ON	Turn off outlet at this time	Turn on outlet at this time
ON/OFF	Turn on outlet at this time	Turn off outlet at this time

Active: Enable the assigned schedule control.

 **PDU**

Information	Current Time: 2007/02/24 03:22:03						
	Outlet (A,B,...)	Every	Date (yy/mm/dd)	Begin (hh:mm)	End (hh:mm)	Action	Active
Control							
System							
Outlet	A,	Mon ▼	09/06/30	07:59	18:30	ON ▼	<input type="checkbox"/>
Schedule	A,	Mon ▼	09/06/30	07:59	18:30	ON ▼	<input type="checkbox"/>
Ping Action	A,	Mon ▼	09/06/30	07:59	18:30	ON ▼	<input type="checkbox"/>
Configuration	A,	Mon ▼	09/06/30	07:59	18:30	ON ▼	<input type="checkbox"/>
PDU	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>
User	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>
Network	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>
Mail	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>
SNMP	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>
Time	A,	Mon ▼	06/01/01	00:07	00:07	OFF ▼	<input type="checkbox"/>

Control: Ping Action


Automatically reboot the locked device by ping its IP

Ping IP Address: Set the device IP that want to be monitored by ping from PDU.

Response 10 minutes: PDU will ping the assigned IP address each minute one time, if the equipment has not responded, then number will be increased one time, when the continual 10 minutes have not obtained the response, the number will display 10 and PDU will carry out the assigned action automatically.

Action: Select outlet action to "OFF" or "OFF/ON"

Active: Enable this function.

 PDU					
Information	Ping IP Address	Response 10 minutes	Outlet	Action	Active
System					
Control	<input type="text" value="19.168.23.200"/>	0	OutletA	OFF ▼	<input type="checkbox"/>
Outlet					
Schedule	<input type="text" value="19.168.23.201"/>	0	OutletB	OFF ▼	<input type="checkbox"/>
Ping Action					
Configuration					
PDU					
User					
Network					
Mail					
SNMP					
Time					

Configuration: PDU

Set the outlet name and delay time.

Name: Rename the outlet.

ON: Set delay time for power on sequential.

OFF: Set delay time for power off sequential.

Note: The maximum delay time is 255 seconds.

PDU			
Information	Name	ON Delay(sec)	OFF Delay(sec)
System	OutletA	1	1
Control	OutletB	2	2
Outlet			
Schedule			
Ping Action			
Configuration			
PDU			
User			
Network			
Mail			
SNMP			
Time			

Note : After PDU is plugged into main power, PDU system will start to sequentially turn on the output socket according to the pre-set delay time in PDU web interface. The factory default setting for delay time is one second for each outlet; therefore the 8 ports PDU will take 8 seconds, 24 ports PDU will take 24 seconds to complete start-up procedure.

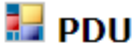
Before the sequence procedure is completed, if a PDU is unplugged from the power source, the outlets which are not turned on will be regarded as remaining at the power-off status. Next time the PDU is plugged into main power, these outlets will not be automatically turned on. These outlets can only be turned on by web interface.

Configuration: User

Change ID and password.

Default ID is snmp and password is 1234.

Note:
Maximum character number of ID and password is 12.
ID and password cannot use special characters.



Information
[System](#)

Control
[Outlet](#)
[Schedule](#)
[Ping_Action](#)

Configuration
[PDU](#)
User
[Network](#)
[Mail](#)
[SNMP](#)
[Time](#)

Original
ID
Password


New
ID
Password

Apply

Configuration: Network

PDU network information

Enable DHCP: Change the way to get IP address for PDU.

 PDU	
Information	IP Address
System	Host Name <input type="text" value="DIGIBOARD"/>
Control	IP Address <input type="text" value="192.168.0.83"/>
Outlet	Subnet Mask <input type="text" value="255.255.255.0"/>
Schedule	Gateway <input type="text" value="192.168.0.1"/>
Ping Action	<input checked="" type="checkbox"/> Enable DHCP
Configuration	DNS Server IP
PDU	Primary DNS IP <input type="text" value="168.95.1.1"/>
User	Secondary DNS IP <input type="text" value="8.8.8.8"/>
Network	<input type="button" value="Apply"/>
Mail	
SNMP	
Time	

Configuration: Mail

When event occurs, PDU can send out email message to pre-defined account.

Email Server: The Email Server only support to be input domain name, not IP address.

Sender's Email: Input the sender email address.

Email Address: Input the recipient email address.

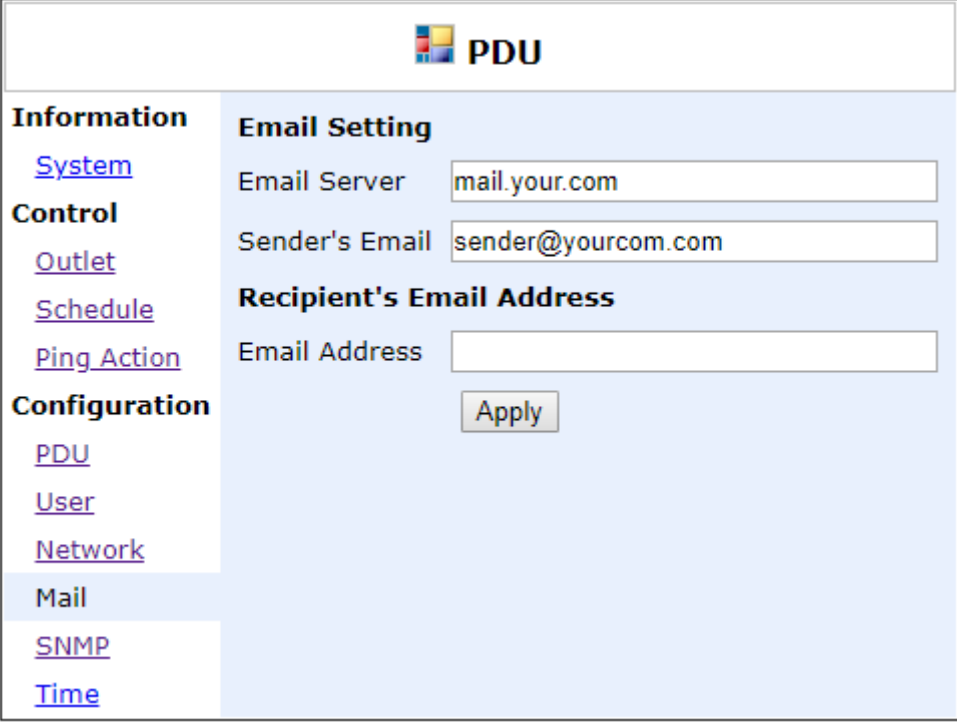
The message in the email:

Indicate OutletA~H-XXXXXXXX status in order

X=0 : means the power off.

X=1 : means the power on.

Note: Make sure DNS server can resolve the Email Server's domain name.



The screenshot displays the PDU configuration web interface. At the top, there is a header with a small logo and the text "PDU". Below the header, the interface is divided into two main sections. On the left is a vertical sidebar containing a list of configuration categories: "Information", "Control", "Configuration", "Mail", "SNMP", and "Time". Each category has a link to its respective page. The "Mail" category is currently selected and highlighted. The main content area on the right is titled "Email Setting" and contains three input fields: "Email Server" with the value "mail.your.com", "Sender's Email" with the value "sender@yourcom.com", and "Recipient's Email Address" with an empty field. Below these fields is an "Apply" button.

PDU	
Information System	Email Setting Email Server <input type="text" value="mail.your.com"/>
Control Outlet	Sender's Email <input type="text" value="sender@yourcom.com"/>
Schedule	Recipient's Email Address
Ping Action	Email Address <input type="text"/>
Configuration PDU	<input type="button" value="Apply"/>
User	
Network	
Mail	
SNMP	
Time	

Configuration: SNMP

When event occurs, PDU can send out trap message to pre-defined IP address.

Trap Notification: Set receiver IP for trap.

Community: Set SNMP community.

Read Community is public and fixed.

Default Write Community is "public" and can be modified by user.

PDU	
Information System	Trap Notification Receiver IP <input type="text" value="192.168.0.1"/> <input type="button" value="Apply"/>
Control Outlet Schedule Ping Action	Community Read public Write <input type="text" value="public"/> <input type="button" value="Apply"/>
Configuration PDU User Network Mail SNMP Time	

Configuration: Time

Set the time for schedule control.

Internet Time Setting: Get time from the assigned network time server.

System Time: Input time manually.

PDU	
Information System	Internet Time Setting
Control Outlet	Time Between Updates <input type="text" value="NO"/>
Schedule	Primary Time Server <input type="text" value="pool.ntp.org"/>
Ping Action	Secondary Time Server <input type="text" value="asia.pool.ntp.org"/>
Configuration PDU	Time Zone <input type="text" value="GMT+8:00"/>
User	<input type="button" value="Apply"/>
Network	System Time 2007/02/24 03:27:27
Mail	System Time (yyyy/mm/dd hh:mm:ss) <input type="text" value="2007/02/24 03:27:24"/>
SNMP	<input type="button" value="Apply"/>
Time	