

2 Port Remote Power Control IP PDU (Power Distribution Unit)

2 Port Remote Power Control IP PDU with Console and Sensor Ports

PDU02IP / PDU02IPSC



*PDU02IP shown in photo

DE: Bedienungsanleitung - de.startech.com

FR: Guide de l'utilisateur - fr.startech.com

ES: Guía del usuario - es.startech.com

IT: Guida per l'uso - it.startech.com

NL: Gebruiksaanwijzing - nl.startech.com

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Product Diagram

Rear View



Front View

PDU02IP



Reset Button RJ45 LAN
LED Indicators

PDU02IPSC



Reset Button RJ45 LAN RS232 UPS Console Dry Contact Input
LED Indicators

Introduction

Packaging Contents

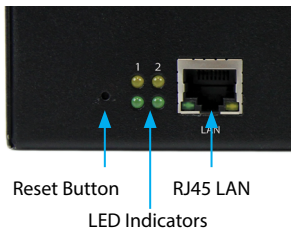
- 1 x 2 Port PDU
- 1 x Power Cable
- 1 x Instruction Manual (CD)

LED Indicators

Port Indicators (Top Row)	LED #1 is illuminated when output receptacle #1 is ON. LED #2 is illuminated when output receptacle #2 is ON.
Reset Indicator (Bottom Left)	Reset LED will flash when the Reset function is being performed.
Power Indicator (Bottom Right)	Utility Power LED is illuminated when there is an acceptable AC voltage Present.

Reset Button

If you need to reset the PDU back to factory defaults, the Reset Button is located next to the LED panel. Insert a paperclip to gently press and hold the Reset Button for at least 3 seconds, then release.



The IP address will be reset back to **192.168.1.10**

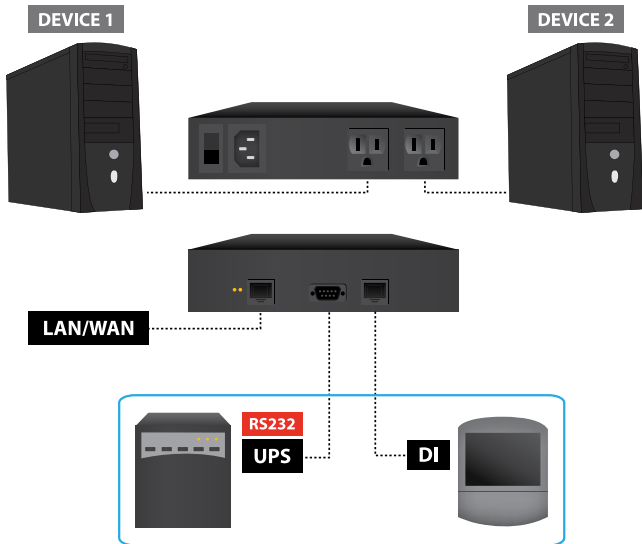
The user name and password will be reset back to **admin**.

All other settings will be unchanged.

Installation

Hardware Installation

1. Connect the power cord to the power inlet and to a wall outlet
2. Plug your equipment into the two output receptacles
3. Connect an Ethernet cable from the PDU to your network
4. Turn the power switch to the ON position



*Optional connections - PDU02IPSC only

Logging In for the First Time

The minimum requirement to operate the PDU is to setup the IP Address, subnet mask, and default gateway, which can be done through your web browser or using the IP Search Utility application on the CD.

Default Settings:

IP address: **192.168.1.10**

Subnet mask: **255.255.255.0**

Default Gateway: **192.168.1.1**

User name / Password: **admin / admin** (lower case)

Web Browser Method

NOTE: The workstation and the PDU must be on the same LAN

1. Open a web browser and input the default IP address (192.168.1.10)
2. After the login screen appears enter admin / admin for the User name and Password



3. Click on the System tab from the menu bar of the web interface and then click on Network to set the IP address and network info of this device

Monitor	System	Firewall	Account	TimeSync	Event	Upgrade	Logout																																																							
<table border="1"> <thead> <tr> <th>Network</th> <th>Mail Server</th> <th>SMS Server</th> <th>SNMP/SysLog</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td colspan="5">Network Setup</td> </tr> <tr> <td colspan="5"> <input checked="" type="radio"/> IP SET <input type="radio"/> DHCP SET </td> </tr> <tr> <td>IP Address</td> <td colspan="2">192.168.1.10</td> <td colspan="2"></td> </tr> <tr> <td>Subnet Mask</td> <td colspan="2">255.255.255.0</td> <td colspan="2"></td> </tr> <tr> <td>Gateway</td> <td colspan="2">192.168.1.1</td> <td colspan="2"></td> </tr> <tr> <td colspan="5">Domain Name Server Setup</td> </tr> <tr> <td>DNS Server 1</td> <td colspan="2">168.95.1.1</td> <td colspan="2"></td> </tr> <tr> <td>DNS Server 2</td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td colspan="5">Web Server Setup</td> </tr> <tr> <td>Http Port</td> <td colspan="2">80</td> <td colspan="2"></td> </tr> </tbody> </table>								Network	Mail Server	SMS Server	SNMP/SysLog	Other	Network Setup					<input checked="" type="radio"/> IP SET <input type="radio"/> DHCP SET					IP Address	192.168.1.10				Subnet Mask	255.255.255.0				Gateway	192.168.1.1				Domain Name Server Setup					DNS Server 1	168.95.1.1				DNS Server 2					Web Server Setup					Http Port	80			
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IP Search Utility

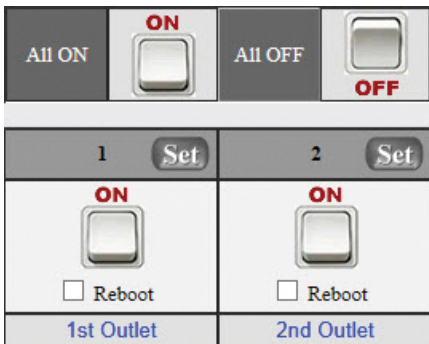
NOTE: The workstation and the PDU must be on the same LAN for the IP Search Utility to detect it, and the Windows Firewall must also be turned off.

1. Open the Windows Control Panel
2. Select Windows Firewall
3. Select Off and then click the OK button
4. Insert the provided CD in the CD-ROM drive
5. Launch the IP Search Utility program
6. Click on the Refresh button to search for all PDU02IPxx units on the LAN
7. Click on the detected PDU and configure the IP address, Gateway and Net Mask, then click the Configure button twice. You will see the values you specified populate in the main window
8. Repeat step 7 for each device if you have multiple PDU02IPxx units connected
9. Once all devices are configured, close the IP Search Utility program and turn the Windows Firewall back on

Web Console Operation

Power Switch Operation

The global outlet controls can be used to either turn all outlets on, or all outlets off, while each individual outlet allows for On / Off / Reboot controls.

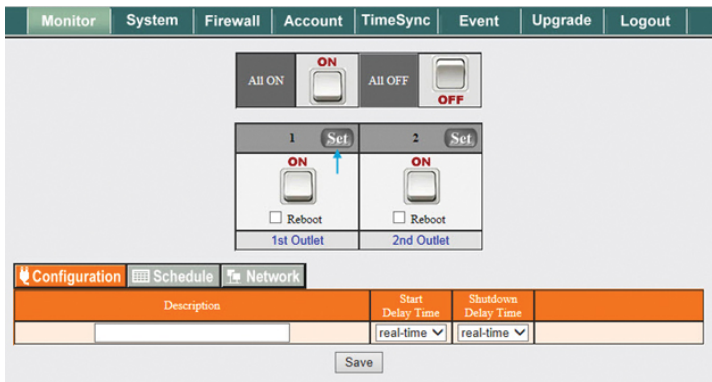


- Double clicking the ALL ON button will turn ON both outlets. Double clicking on the ALL OFF button will turn OFF all of the outlets.
- Double clicking the switch for Port 1 or Port 2 will flip the switch to the opposite state (ON/OFF) for that individual outlet.
- If you want to Reboot (cycle off, then back on) an individual outlet, check the Reboot box and then double click on the switch.



Monitor Section

The Monitor section shows you the current status of each outlet and allows you to modify the power state of each outlet individually, or make global changes to both. From the Monitor tab you can also Schedule events and configure the Auto-Ping feature.



Configuration Tab

Click on the **Set** button located on the top corner of each outlet to modify an individual outlet. When the Set button is orange, the outlet is ready to be configured.

Description: Allows you to give each outlet a more meaningful name if desired

Start Delay Time: Each outlet can be programmed to startup at different time intervals instead of both of them starting up at the same time.

Shutdown Delay Time: Each outlet can be programmed to shutdown at different time intervals instead of shutting both of them down at the same time.

Save: Saves all changes.

Schedule Tab

Configure scheduled actions for each outlet. Click on the Set button located on the top corner of each outlet to modify an individual outlet. When the Set button is orange, the outlet is ready to be configured.

Configuration	Schedule	Network	
Recurrence	Time	Action	Delete
Daily	10:55	Off	X
Daily	10:59	On	X

Daily | 10 | 59 | On | ADD

Recurrence: An Action can be scheduled to occur yearly, monthly, weekly or daily at a specific time for each individual outlet.

Time: Set the time (hours and minutes) when you want the action to occur.

Action: Set the action you want the outlet to perform, ON, OFF or Reboot.

ADD: Click the ADD button to add this action.

Delete: To delete a scheduled action, double-click on the "X".

Save: Saves all changes.

Network Tab

Configure the Auto-PING feature to ping an IP-addressable device and detect when that device has stopped communicating. Click on the Set button located on the top corner of each outlet to modify an individual outlet. When the Set button is orange, the outlet is ready to be configured.

Configuration	Schedule	Network			
Detect	Equipment Network Address	PING Interval Time	Detect Times	Reboot	Re-detect Time
<input checked="" type="checkbox"/>	192.168.1.50	5 Min	3	<input type="checkbox"/>	10 Min

Save

Detect: Check this box to enable the Auto-Ping function.

Equipment Network Address: Enter the IP address of the connected equipment.

PING Interval Time: Set the time Interval to PING the connected device.

Detect Times: If a device fails to respond to a ping continuously and exceeds the specified amount of attempts, the PDU02IPxx can notify selected personnel via email or SMS.

Reboot: Check this box to reboot the outlet for the failed connected device.

Re-detect Time: The time interval before restarting the Auto-Ping function after the connected device has been rebooted.

Save: Saves all changes.

UPS Status (PDU02IPSC Only)

The UPS Status information will display to the left of the power switches on the Monitor Tab. If you have connected an APC Smart UPS series device to the RS232 port on the PDU02IPSC, you can monitor the following information about your UPS.

APC UPS Status	
Alive:	0
Model:	
AC Fault:	0
Output Overload:	0
Battery Level:	0.0%
Battery Run Time:	0(Min)
Battery Low:	0
Replace Battery:	0

Alive - Displays the state of the UPS device as either Normal (1) or Offline (0).

Model - Displays the connected UPS model.

AC Fault - Displays if there is an AC fault causing the equipment to function on UPS battery power – Normal (0), AC Fault (1)

Output Overload - Displays either Normal (0) or Overload (1) state - Overload is shown if the power draw exceeds the output limit set by the UPS when operating on battery power.

Battery Level(%) - Displays the remaining battery capacity as a percent value.

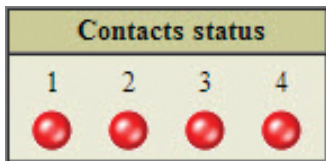
Battery Run Time (Min) - Displays the remaining battery capacity in minutes.

Battery Low - Displays either Normal (0) or Low (1) state – the Low state threshold is set by the UPS.

Replace Battery - Displays either Normal (0) or Needs Replacement (1) - the Needs Replacement state threshold is set by the UPS.

Dry Contact Input Indication (PDU02IPSC Only)

The dry contact status information will display to the right of the power switches on the Monitor Tab. If you have connected and configured the Detectors information (located in System > Detectors section – explained in the following pages), you will see a Normal or Abnormal indication.



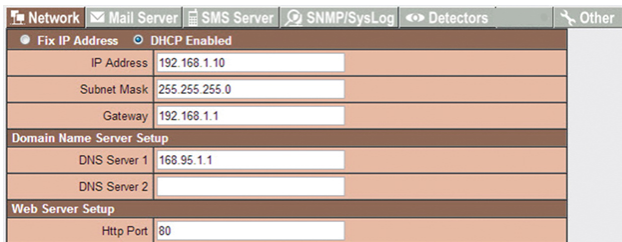
Status Illustration:  Normal  Abnormal

System Section



Network Tab

Configure the PDU with a Static IP address or use DHCP.



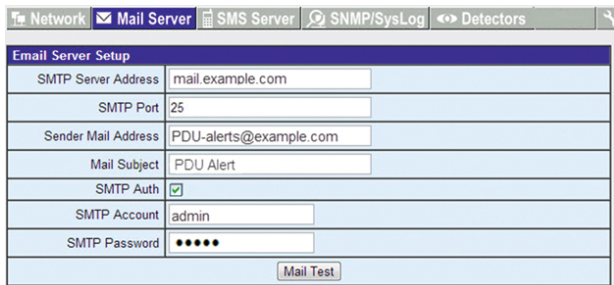
Network	
<input checked="" type="radio"/> Fix IP Address <input type="radio"/> DHCP Enabled	
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Domain Name Server Setup	
DNS Server 1	168.95.1.1
DNS Server 2	
Web Server Setup	
Http Port	80

Http Port: Assign the desired HTTP port (default is port 80) for connecting to the PDU via a web browser. If you change the HTTP port, enter the IP address followed by the new HTTP port into your browser address bar (e.g. http://192.168.1.10:8080).

Save: Saves all changes.

Mail Server Tab

Configure the Mail Server settings to send notifications when an event has occurred.



The screenshot shows a web interface with a navigation bar at the top containing tabs for Network, Mail Server (selected), SMS Server, SNMP/SysLog, and Detectors. Below the navigation bar is the 'Email Server Setup' configuration form. The form contains the following fields:

Email Server Setup	
SMTP Server Address	mail.example.com
SMTP Port	25
Sender Mail Address	PDU-alerts@example.com
Mail Subject	PDU Alert
SMTP Auth	<input checked="" type="checkbox"/>
SMTP Account	admin
SMTP Password	•••••
<input type="button" value="Mail Test"/>	

SMTP Server Address: Enter the Hostname or IP address of the SMTP Mail Server that will be used to send emails from the PDU. If entering a Hostname, you will also be required to enter the DNS Address on the Network tab.

SMTP Port: Enter the port number for the SMTP server. The default port is 25.

Sender Mail Address: This must be a legitimate email address.

Mail Subject: Enter a subject line to easily identify the device.

SMTP Auth: Check this box if the Mail Server requires authentication to send emails.

SMTP Account: Enter the account name if SMTP authentication is required.

SMTP Password: Enter the password if SMTP authentication is required.

Mail Test: This is used to verify that the email works properly.

Save: Saves all changes.

SMS Server Tab

Configure the SMS Server settings to send text notifications when an event has occurred.

Network	Mail Server	SMS Server	SNMP/SysLog	Detectors
Message Server Setup				
Server Address	mail.example.com			
Port	2500			
Equipment Name	PDU Alert			
Account	admin			
Password	•••••			
Send SMS	<input checked="" type="checkbox"/>			
<input type="button" value="SMS Test"/>				

Server Address: Enter the SMS server address.

Port: Enter the port number for the SMS server. The default value is 2500.

Equipment Name: Enter a name/subject to identify the device.

Account: Enter the account name if required.

Password: Enter the password if required.

Send SMS: Check this box if SMS Server requires authentication to send messages.

SMS Test: This is used to verify that the SMS works properly.

Save: Saves all changes.

SNMP/SysLog Tab

Configure SNMP Traps and System Logs to be sent to different Network Management Stations (NMS).

Network	Mail Server	SMS Server	SNMP/SysLog	Other
MIB System				
SNMP Enable	<input checked="" type="checkbox"/>			
SNMP Port	512			
Community String	public			
System Name	SmartPower 2L Remote Power Co			
System Contact	Administrator			
System Location	Office			
TRAP Notification				
Receiver IP Address	Receiver Port	Community	Enabled	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	
<input type="button" value="SNMP Test"/>				
Syslog Notification				
Syslog Server Address	Syslog Server Port	Enabled		
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>		
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>		
<input type="button" value="SYSLOG Test"/>				
<input type="button" value="Save"/>				

System Name: Enter the name of the SNMP device.

System Contact: Enter the name of the System Administrator.

System Location: Enter the location of the SNMP device.

Receiver IP Address: The IP Address of the NMS of where the Traps should be sent.

Receiver Port: The port that will be used to receive the Traps. The default value is 162.

Community: Low-level password of the associated IP address with the access type set by the administrator.

Enabled: Enables the SNMP Traps to be sent.

SNMP Test: This is used to verify that the Trap notification works properly.

Syslog Server Address: The IP Address of the Server to which the System Logs should be sent.

Syslog Server Port: The port that will be used to receive the System Logs.

Save: Saves all changes.

Detectors Tab (PDU02IPSC Only)

Network	Mail Server	SMS Server	SNMP/SysLog	Detectors
Contact Detector				
1	<input checked="" type="radio"/> Normal Close	<input type="radio"/> Normal Open		
2	<input checked="" type="radio"/> Normal Close	<input type="radio"/> Normal Open		
3	<input checked="" type="radio"/> Normal Close	<input type="radio"/> Normal Open		
4	<input checked="" type="radio"/> Normal Close	<input type="radio"/> Normal Open		
MIC Detector				
Times	<input type="text" value="1"/>			
Sec	<input type="text" value="3"/>			
Vibration Detector				
Times	<input type="text" value="1"/>			
Sec	<input type="text" value="5"/>			

Other Tab

Set the outlets on the main tab to default to a reboot action, instead of ON/OFF.

Reboot power switch	
Reboot Option	<input type="checkbox"/>
<input type="checkbox"/> Reboot Device	

Reboot Option: Check this box to default to rebooting the outlet instead of just turning the outlet ON/OFF. The Reboot check box on the Monitor screen will be checked when this option is selected.

Reboot Device: Selecting this option will immediately reboot the outlets.

Save: Saves all changes.

Firewall Section



This menu allows the administrator to configure user privileges and prevent unauthorized access to the device.

IP Filter Tab

Configure the range of IP addresses that are able to access the PDU.

IP Filter Setup	
IP Filter Enable	<input type="checkbox"/>
Allow IP Address	Delete

192 . 168 . 1 . 207 ~ 207 ADD

Save

IP Filter Enable: Check this box to enable the IP address filter.

Allow IP Address: The first four sections are the beginning of the IP range. The last section is the ending of the IP range that is being given access to the device.

E.g. To authorize the IP range from 192.168.1.110 - 192.168.1.120, input as shown in the image above

ADD: Click ADD to place the entered address range in the table.

Delete: To delete a specific IP address range, click on the "X".

Save: Saves all changes.

MAC Filter Tab

Configure a specific list of MAC addresses that are able to access the PDU.

MAC Filter Setup	
MAC Filter Enable	<input type="checkbox"/>
Allow MAC Address	Delete

00 : 1C : BF : 03 : DD : BF [ADD]

[Save]

MAC Filter Enable: Check this box to enable the MAC address filter.

Allow MAC Address: Enter the MAC address of the user(s) that you want to have access to the PDU. The default MAC address is the MAC address of the computer that you initially used to setup the device.

ADD: Click ADD to place the entered address in the table.

Delete: To delete a specific MAC address, click on the "X".

Save: Saves all changes.

Account Section

Monitor	System	Firewall	Account	TimeSync	Event	Upgrade	Logout
ID	Account	Password	Cellphone	Mail Address	1	2	Del
1	admin	•••••			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This menu allows the administrator to setup authorized user accounts and other privileges. The administrator can assign specific access levels for each user account. Example: The administrator can assign user "A" to have access to outlet number 1 and receive email notifications when an event occurs to that specific outlet. Smart Power 2S allows administrator to set up 2 accounts for management.

Account: Enter the user id for each user account.

Password: Enter the password for each user account.

Cell phone: Enter the contact phone number of the user that will receive the SMS text message once an event has occurred.

Mail Address: Enter the contact email address of the user that will receive the email notification once an event has occurred.

1 | 2: Mark the outlet(s) that the account can control.

Del (Column): Check account(s) to be deleted.

Delete (Button): Delete checked account(s).

Save: Saves all changes.

TimeSync Section

Monitor	System	Firewall	Account	TimeSync	Event	Upgrade	Logout
Equipment Time							
Equipment Date (mm-dd-yyyy)		01-01-70					
Equipment Time (hh.mm.ss)		00:26:07					
System Time							
<input checked="" type="radio"/> Sync with PC							
PC Date (mm-dd-yyyy)		04-22-113					
PC Time (hh.mm.ss)		10:12:48					
<input type="radio"/> Sync with NTP Server							
NTP Server Address		time.stdtime.gov.tw				New	
<input type="radio"/> Manual Setup							
Date (mm-dd-yyyy)		04-22-113					
Time (hh.mm.ss)		10:12:46					
Time Zone Setup							
Time Zone		GMT +		08		:00	
<input type="button" value="Save"/>							

This menu allows the administrator to set the date and time for the PDU.

Equipment Date: Displays the date. This field is not editable.

Equipment Time: Displays the time in 24-hour format. This field is not editable.

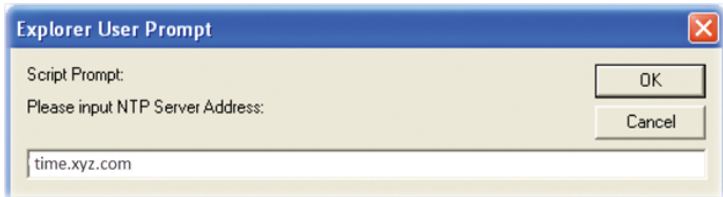
Sync with PC: Check the Sync with PC button to synchronize the PDU's date and time with the PC.

PC Date: The current PC system date.

PC Time: The current PC system time.

Sync with NTP Server: Check the Sync with NTP Server button to synchronize the PDU's date and time with an NTP server.

NTP Server Address: There is a drop-down list of some available NTP servers. Select the desired NTP server and then click Save. If your desired NTP server is not on the list, click on the **New** button and then enter your desired NTP server address, then click OK.



Manual Setup: Check the Manual Setup button to manually setup the date and time.

Date: Please enter the date with correct format.

Time: Please enter the time with correct format.

Time Zone: Adjust the time difference between Greenwich Mean Time and your country into this format.

Save: Saves all changes.

Event Section

Monitor	System	Firewall	Account	TimeSync	Event	Upgrade	Logout
<input type="button" value="Refresh"/> <input type="button" value="Download"/> <input type="button" value="Delete"/>							
Time	Kind	Message					
01/01/1970 00:23:23		Port:2[2nd Outlet] Power Off,Operator:Local User [admin][192.168.1.9] control by browser					
01/01/1970 00:23:23		Port:1[1st Outlet] Power Off,Operator:Local User [admin][192.168.1.9] control by browser					
01/01/1970 00:23:22		Port:2[2nd Outlet] Power Off,Operator:Local User [admin][192.168.1.9] control by browser					
01/01/1970 00:23:22		Port:1[1st Outlet] Power On,Operator:Local User [admin][192.168.1.9] control by browser					

This menu displays the events that have occurred with the PDU.

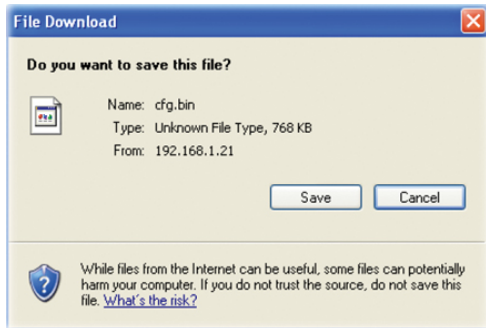
Refresh: Check for new events.

Download: Save the event log information (.csv format).

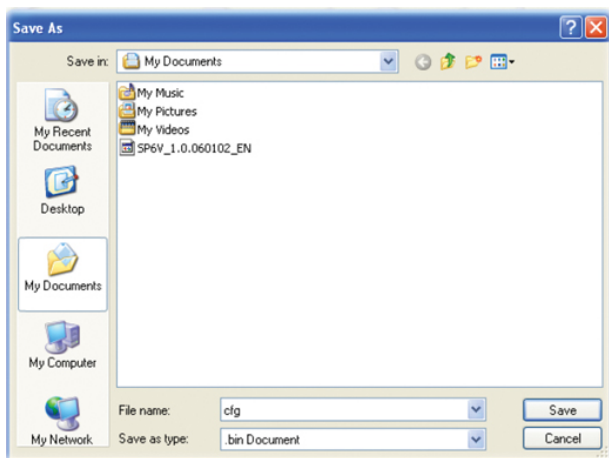
Delete: Clear the event log.

To Download / save the configuration file:

1. Click the **Download** button, then select **Save** from the window that pops up



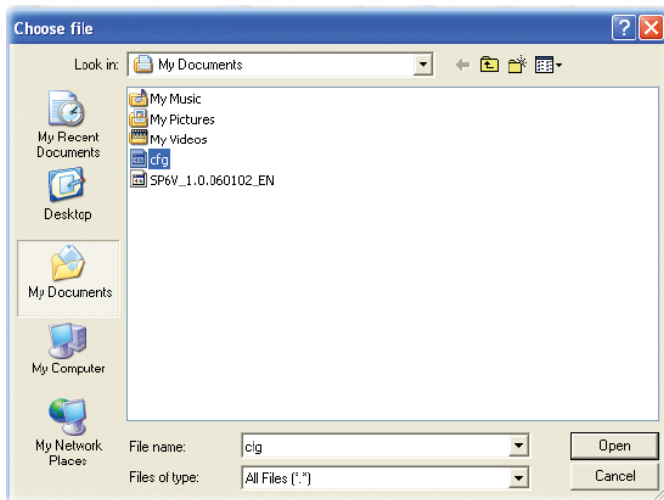
2. Select the location you would like to place the file (.bin format), then click Save



To upload a previously saved configuration file:



1. Click the Browse button
2. Navigate to the location of your previously saved cfg.bin file, then click Open



3. Click the Upload button to begin. Once the upload is complete, the PDU will restart automatically

Firmware Upgrade Procedure

Firmware Upgrade

IP:

Production Data

Production Name:

IP Address:

Subnet Mask:

MAC Address:

Current Firmware Version:

Firmware File Data

File Type:

Production Name:

Firmware Version:

Firmware File:

Password:

Progress bar: [|||||]

1. Open the firmware_upgrade.exe program located on the included CD
2. Input the IP Address of the PDU
3. Click on the **GetVersion** button
4. Click on the browse (...) button to select the new firmware file (.bin)
5. Input the password (default is **admin**)
6. Click on the **Upgrade** button to start the process
7. Once the firmware upgrading process is complete, the PDU will reboot
8. Once the reboot is complete click the **OK** button

Specifications

	PDU02IP	PDU02IPSC
Ports		2
Connectors	1 - IEC 60320 C14 Power Plug 1 - RJ-45 Female 2 - NEMA 5-15 Power (North America) Receptacle	1 - IEC 60320 C14 Power Plug 1 - DB-9 (9 pin; D-Sub) Male 2 - RJ-45 Female 2 - NEMA 5-15 Power (North America) Receptacle
Max. Current load per Port		8 A
Max. Total Current Output		12 A
Power Consumption		4.5 W
Enclosure Material		Steel
Operating Temperature		0°C to 40°C (32°F to 104°F)
Storage Temperature		0°C to 70°C (32°F to 158°F)
Humidity		0~85% RH (Non-Condensing)
Dimensions		182 x 125 x 44 mm
Weight	780g	820g

Technical Support

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