

Intelligent PDU Web Interface

User's Manual



K01-E0000002-00

Table Of Contents

1.	Introduction	L
	1.1 Brief Introduction to Web Interfaces	1
	1.2 How to Log In	1
	1.3 General Setting	2
	1.3.1 Date and Time Setting	2
	1.3.2 Daylight Saving Time	3
	1.3.3 Device Identification	4
	1.3.4 Device Reset/Reboot	4
2.	Advanced Power Management	5
	2.1 Remote Monitoring	6
	2.2 Visible Power Consumption	9
	2.3 Event Logging	14
	2.4 Power Protection	15
	2.5 Event Action Notification	17
	2.5.1 Event Action Recipient Settings	19
	2.5.1.1 E-mail Notification	19
	2.5.1.2 SNMP Trap Notification	22
	2.5.1.2 SMS Notification	25
3.	Outlet Management	L
	3.1 Remote Outlet On/Off/Reboot	31
	3.2 Scheduled Outlet On/Off/Reboot	33
	3.3 Sequencing Power On/Off	35
	3.4 Wake on Lan (WoL)	38
	3.5 Graceful Computer Shutdown	41
	3.6 Cisco EnergyWise	42
4.	Security	5
	4.1 User Account	46
	4.2 Outlet Account	48
	4.3 Timeout Setting	50
5.	Network Service	L
	5.1 TCP/IPv4 Setting	51
	5.2 TCP/IPv6 Setting	52

Table of Content

6. PDU Information	
5.7 FTP Service	
5.6 Console Service	
5.5 Web Service	
5.4 SNMPv3 Service Setting	
5.3 SNMPv1 Service Setting	

1. Introduction

1.1 Brief Introduction to Web Interfaces

The CyberPower Power Distribution Unit Web Interface gives users all the features they need to configure, manage, and monitor the PDU via a Web browser. With this easy-to-navigate interface, users can monitor the load level, manage the outlets, set power alerts, and complete many other tasks in an intuitive manner.

1.2 How to Log In

PDU Remote Manageme X	A CONTRACTOR OF A CONTRACTOR A	Guest 🔲 🗖 🗮 🎽
← → C 🗋 192.168.26.87/log	in.html	≡
	CoberRower PDU Remote M	lanagement
	2010-2014, CyberPower Systems, Inc. All rights reserved.	

- 1. Open a Web browser.
- 2. Enter the IP address of the CyberPower PDU in the Browser Address Bar, and then press ENTER. **Note:** For the IP address, users can refer to the LCD screen of the PDU.
- 3. Enter the information for the **User Name** and **Password** fields.

There are two types of user accounts.

Account Type	Default User Name	Default Password	Authorization
Administrator	cyber	cyber	View, access, and control all
			the settings, including
			enabling/disabling the
			Viewer account.
Viewer	device	cyber	View all the settings.

4. In the Language field, select English or French, and click LOGIN to open the <u>Summary Tab</u>. Intelligent PDU Web Interface

1.3 General Setting

These are the basic settings for the PDU.

1.3.1 Date and Time Setting

The date and time can be set manually or synchronized with a NTP (Network Time Protocol) server. All time-related configurations are based on this setting. See **System Tab > General > Date & Time**.

	Date & Time	
General User Account Date & Time Daylight Saving Time Identification Security Network Service Notification Reset/ Reboot About	Status Updat Next NTP Update System Time Configuration	/2016 Sunday & 21:13:56 te from manual input. GMT+0 ▼ 0.0.0.0 0.0.0.0 8759 [1-8760 Hour(s)] ✔ Update right now 03/20/2016 mm/dd/yyyy 21:13:56 hh:mm:ss

System Tab > General > Date & Time

Item	Definition	
Current Settings		
Date & Time	The current date and time.	
Status	Whether the date and time setting is updated by manual input or by the NTP (Network Time Protocol) server.	
Next NTP Update Synchronizes with Update Interval .		
System Time Configuration		
Time Zone	The options for the time zone.	
Using NTP Server	*Primary NTP Server: Users enter the IP address/domain name of the NTP server and choose local time zone based on their	

Intelligent PDU Web Interface

Item	Definition	
	location.	
	*Secondary NTP Server: Users enter the IP address/domain name	
	of the NTP server and choose local time zone based on their location.	
	*Update Interval: The frequency for updating the date and time from the NTP server.	
	Select the Update right now option to update immediately.	
Manual Setup	*Date : Enter the date in the designated format.	
Manual Setup	*Time : Enter the time in the designated format.	

1.3.2 Daylight Saving Time

Users adjust the clock daylight saving time according to their location. See **System Tab > General > Daylight Saving Time.**

CyberPower' PD
General User Account Date & Time Daylight Saving Time Identification Security Network Service Notification Reset/Reboot About

System Tab > General > Daylight Saving Time

Item	Definition
DST Configuration	
Disable	Disable the DST function.

Intelligent PDU Web Interface

Item	Definition	
Traditional US DST Time	Start from the second Sunday in March to the first Sunday in November.	
Manual DST Date Time	Select the start/ end time using the dropdown menu.	

1.3.3 Device Identification

Users assign the device's name, location, and the person to contact about issues. See **System Tab > General > Identification**.

		Administrator login from 192.168.26.62 🔒 [Logout 🎵	
Cyber Power' PDU	J Remote Management	Summary PDU Logs System Help	
CONCEPTION OF CO	J Remote Management Identification Name PDU15SW8FNET Location Server Room Contact Administrator Apply Reset		
© 2010-2014, CyberPower System			

System Tab > General > Identification

ltem	Definition
Name	The name entered by the user to identify the PDU.
Location	The PDU location entered by the user.
Contact	The person to be contacted about issues. Entered by the user.

1.3.4 Device Reset/Reboot

Users can reboot the PDU or reset all the settings to defaults. See **System Tab > Reset/Reboot**.

hor Doword DD	U Remote Management	Administrator login from 192.168.25.17 🔒 [l.o.	
DerFower PD	O Remote Management	Summary PDU Logs System	He
	Reset/Reboot		
General	Reboot Power Distribution Unit		
Network Service			
Notification	Reset Power Distribution Unit		
Reset/Reboot	Reset Power Distribution Unit (TCP/IP Setting	an Descented)	
About	Reset Power Distribution Unit (TCP/IP Setting	gs Reserved)	
	Apply Reset		

System Tab > Reset/Reboot

Item	Definition			
Reboot Power Distribution Unit	Restart the PDU without changing the outlet state.			
Reset Power Distribution Unit	Reset the PDU to its factory default setting and restart it. This			
Reset Fower Distribution Onit	action does not change the outlet state.			
Reset Power Distribution Unit	Reset the PDU to its factory default setting while reserving the			
(TCP/IP Settings Reserved)	TCP/IP settings, and restart the PDU. This action does not change			
(TCP/TP Settings Reserved)	the outlet state.			

2. Advanced Power Management

2.1 Remote Monitoring

Users can see real-time readings of PDU vitals such as device load, power consumption, and outlet status for an overview of the current PDU status. See **Summary Tab** and **PDU Tab > Status**.

1 PDU is normal			
DU Status		System Data	
Power 0 W Outlet 1 2 3	4 5 6 7 8	Location Contact Rating Uptime Date & Time	Server Room Administrator 12A 22hr. 42min. 18sec. 08/06/2015 16:06:30
Date & Time	Event		
08/05/2015 17:20:37	An outlet on a PDU has turned on. [1,2,3	3,4,5,6,7,8]	
07/29/2015 17:38:16	An outlet on a PDU has turned on. [1,2,3	3,4,5,6,7,8]	

Item	Definition
Current Condition	Operating condition of the PDU.
PDU Status	
Dev Load	Load current of the device, measured in Amps.
Power	Load power of the device, measured in Watts.
	The on/off status of each outlet.
Outlet	The green light icon indicates that the outlet is on and providing power. This
	light will go off when the outlet turns off.
System Data	
Name	The name entered by the user to identify the PDU. See System > General >
Name	Identification.

Intelligent PDU Web Interface

Item	Definition		
Location	The location of the PDU, entered by user.		
LOCATION	See System > General > Identification.		
Contact	The person accountable for the maintenance of the PDU. Entered by the user.		
Contact	See System > General > Identification.		
Rating	Current rating of the PDU, measured in Amps.		
Uptime	The amount of time the system has been working since it was turned on.		
Data & Tima	System time of the PDU. For configuration settings, see System > General >		
Date & Time	Date & Time.		
Recent Device Events	A list of the most recent five device events. All events are related to the		
Recent Device Events	configuration change.		

	Status		
Status	Load		
Device Manager	Device Load	0.00 A	
Outlet Manager	Power	0 W / 0 VA	
Wake on Lan	Power Factor		
EnergyWise	Peak Load	0.28 A	(at 07/29/2015 17:45:02)
		Reset	(last reset at 02/10/2015 20:44:54)
PowerPanel [®] List	Energy	0.3 kWh	(from 02/10/2015 20:44:54)
		Reset	
	Utility		
	Voltage	106.7 V	
	Frequency	60.0 Hz	

PDU Tab > Status

Item	Definition
Load	
Device Load	Load current of the connected device(s), measured in Amps.
Bank Load**	Load current of the bank, measured in Amps.
Power	Load power of the connected device(s), measured in Watts and Volt-Amperes.
Power Factor	Load power factor of the connected device(s).
Peak Load	Maximum load current recorded and the time of occurrence. Click Reset to set the value to zero.
Energy	Total energy consumed by the connected device(s) from the reset date, measured in kWh. Click Reset to set the value to zero.
Utility	
Voltage	Voltage of the utility power.
Frequency	Frequency of the utility power.

****Only** available for some models.

2.2 Visible Power Consumption

With comprehensive energy measurement data, users can gain more visibility to the total power usage of a power strip, as well as estimate the energy cost and CO2 emissions. The energy-trend report also helps users analyze their power utilization and to review the history of power conditions. See Logs Tab > Status Records, Logs Tab > Graphing, Logs Tab > Energy Records, and Logs Tab > Maintenance.

3	Status Records								
Event Logs	Date & Time	Device max (A)		Voltage (V)	Power max (kW)		Energy (kWh)	Temp. (°C)	Hum. (%RH
tatus Records	08/11/2015 17:58:21	0.00	0.00	105.7	0.000	0.000	0.3	N/A	N/A
Graphing	08/11/2015 16:58:21	0.00	0.00	105.5	0.000	0.000	0.3	N/A	N/A
intenance	08/11/2015 15:58:22	0.00	0.00	106.2	0.000	0.000	0.3	N/A	N/A
	08/11/2015 14:58:22	0.00	0.00	106.8	0.000	0.000	0.3	N/A	N/A
	08/11/2015 13:58:22	0.00	0.00	106.2	0.000	0.000	0.3	N/A	N/A
	08/11/2015 12:58:22	0.00	0.00	105.9	0.000	0.000	0.3	N/A	N/A
	08/11/2015 11:58:22	0.00	0.00	106.1	0.000	0.000	0.3	N/A	N/A
	08/11/2015 10:58:22	0.00	0.00	106.2	0.000	0.000	0.3	N/A	N/A
	08/11/2015 09:58:22	0.00	0.00	106.0	0.000	0.000	0.3	N/A	N/A
	08/11/2015 08:58:23	0.00	0.00	106.7	0.000	0.000	0.3	N/A	N/A
	08/11/2015 07:58:23	0.00	0.00	106.5	0.000	0.000	0.3	N/A	N/A
	08/11/2015 06:58:23	0.00	0.00	105.6	0.000	0.000	0.3	N/A	N/A
	08/11/2015 05:58:23	0.00	0.00	106.8	0.000	0.000	0.3	N/A	N/A
	08/11/2015 04:58:23	0.00	0.00	107.3	0.000	0.000	0.3	N/A	N/A
	08/11/2015 03:58:23	0.00	0.00	107.2	0.000	0.000	0.3	N/A	N/A

Logs Tab > Status Records

Item	Definition
	The maximum load current of the connected device(s) or bank during a specific
Device Max (A)	time interval, measured in Amps. This interval can be set in Logs Tab >
	Maintenance.
Device (A)	Load current of the connected device(s) or bank, measured in Amps.
Voltage (V)	Voltage of the utility power.
	Maximum load power of the connected device(s) during a specific time interval,
Power max (kW)	measured in kW. The interval can be set in Logs Tab > Maintenance.
Power (kW)	Load power of the connected device(s), measured in kW.
Eporgy (k)(h)	Total energy consumed by the connected device(s) during a specific time interval,
Energy (kWh)	measured in kWh. This interval can be set in Logs Tab > Maintenance.

Item	Definition
Temp. (°C/°F)	The temperature detected by the Environment Sensor, measured in °C or °F.
	The humidity detected by the Environment Sensor, measured as a percentage of
Hum. (%RH)	relative humidity.

Logs Tab > Graphing

	Data Log Graphing
Event Logs Status Records Energy Records Graphing Maintenance	Graph Period Last 1 day From 11/16/2015 11:16 to 11/17/2015 11:16 Graph Data Device Current Voltage Power Energy Temperature Humidity Graph Node Display All Nodes in Detail
	Draw Reset Launch Graph in New Window

Item	Definition
	The time period is used to create a retroactive graph of the status
Graph Period	records. A large time period will require more time to render the
	graph.
	The data is used to create a graph of the status records. Up to five
Graph Data	data points can be selected. A large number of data selected will
	require more time to render the graph.
	Select the Display All Nodes in Detail option to display the selected
	data points along the graph. When the cursor is moved to an
Graph Node	individual data point, information about that point will be shown.
	If this option is not selected, the graph will show only the line
	(without the points), so less time is needed to render.

Intelligent PDU Web Interface

2. Advanced Power Management

Item	Definition
Launch Graph in New Window	A detailed view of the graph opens in a new browser window.

	Energy Records						
Event Logs	Date & Time	Interval Energy(kWh)	Interval Cost(units)	Interval CO2(kg)	Energy (kWh)	Cost (units)	CO2 (kg)
Status Records	08/12/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
ergy Records	08/11/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
Graphing Maintenance	08/10/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
	08/09/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
	08/08/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
	08/07/2015 00:00:00	0.0	0.00	0.000	0.3	0.90	0.18
	08/06/2015 00:00:00	0.2	0.60	0.120	0.3	0.90	0.18
	07/30/2015 00:00:00	0.1	0.30	0.060	0.1	0.30	0.06
	07/30/2015 00:00:00	0.1	0.30	0.060	0.1	0.30	0.0

Logs Tab > Energy Records

Item	Definition
Interval Energy (kWh)	Energy consumed by connected device(s) during a specific time interval,
Interval Energy (KWH)	measured in kWh. This interval can be set in Logs Tab > Maintenance.
	Cost of the energy consumed by the connected device(s) during a specific
Interval Cost (units)	time interval, equal to Electricity Rate multiplied by Interval Energy. This
	interval can be set in Logs Tab > Maintenance.
	Equivalent CO2 emission of the connected device(s) during a specific
Interval CO2 (kg)	time interval, equal to CO2 Emissions multiplied by Interval Energy. This
	interval can be set in Logs Tab > Maintenance.
Energy (kWh)	Accumulated Interval Energy since the last reset.
Cost (units)	Accumulated Interval Cost since the last reset.
CO2 (kg)	Accumulated Interval CO2 since the last reset.

	Maintenance	
Event Logs	Event Logs	
Status Records	Clear Entire Logs	No
Energy Records		Yes, right now.
Graphing Maintenance	The Number of Event	195/1024
Maintenance	Save Event Logs	Save
	Status Records	
	Recording Interval	1 hour 🔻
	Clear Entire Records	No
		Yes, right now.
	Remaining Time	99day 6hour / 106day 16hour
	Save Status Records	Save
	Energy Records	
	Recording Interval	one day 🔻
	Clear Entire Records	No
		○ Yes, right now.
	Electricity Rate	3.0 units / KWh [0.0-6000]
	CO2 Emissions	0.60 kg / kWh [0.00-600]
	Save Energy Records	Save

Logs Tab > Maintenance

Item	Definition
Event Logs	
Clear Entire Logs	Clear the existing event logs.
The Number of Event	The number of the existing event logs and the maximum number of the
The Number of Event	event logs that can be recorded.
Save Event Logs	Save the existing event logs as a text file.
Status Records	
	The frequency to record the status data.
	A smaller interval will provide more recordings, but the recordings are
Recording Interval	overwritten in a shorter period of time. A larger interval will provide
	fewer recordings, but the recordings are overwritten in a longer period
	of time.
Clear Entire Records	Clear the existing status records.
	The time that records have been kept. A smaller recording interval leads
Remaining Time	to less remaining time while a larger recording interval leads to more
	remaining time.

2. Advanced Power Management

Item	Definition
Save Status Records	Save the status records as a text file.
Energy Records	
Recording Interval	The frequency to record the energy data.
Clear Entire Records	Clear the existing energy records.
Electricity Pate	The cost (units) of energy per unit of energy consumed (kWh). Unit is a
Electricity Rate	monetary value.
CO2 Emissions	The equivalent CO2 emission (kg) per unit of energy consumed (kWh).
Save Energy Records	Save the existing energy records as a text file.

2.3 Event Logging

Users can view all the events, including log in/out records and configuration changes. The timestamp is recorded in a 24-hour format. Users can clear the existing event logs in Logs Tab > Maintenance. See Logs Tab > Event Logs.

1	Event Logs	
Event Logs	Date & Time	Event
Status Records	08/08/2015 09:06:52	An outlet on a PDU has turned on. [1,2,3,4,5,6,7,8]
Energy Records	08/07/2015 17:40:21	Admin user logout from 192.168.25.21.
Graphing	08/07/2015 17:30:21	Admin user login from 192.168.25.21.
Maintenance	08/07/2015 17:16:11	Admin user logout from 192.168.25.21.
	08/07/2015 17:06:11	A device configuration change has been made on a PDU
	08/07/2015 16:56:16	PowerPanel client has been removed from system with 192.168.26.134.
	08/07/2015 16:55:00	An outlet on a PDU has turned off. [1,2,3,4,5]
	08/07/2015 16:55:00	An outlet on a PDU has been assigned to turn off. [1,2,3,4,5]
	08/07/2015 16:53:42	Admin user login from 192.168.25.21.
	08/07/2015 16:34:00	Admin user logout from 192.168.25.21.
	08/07/2015 16:23:55	Admin user login from 192.168.25.21.
	08/07/2015 16:12:32	Admin user logout from 192.168.25.21.
	08/07/2015 15:51:06	A cancel pending Command has been made on a PDU. [1,2]
	08/07/2015 15:51:01	An outlet on a PDU has turned on. [1,2]
	08/07/2015 15:51:01	An outlet on a PDU has been assigned to turn on. [1,2]

Logs Tab > Event Logs

2.4 Power Protection

The configurable load threshold can be set to prevent an overload condition. Coldstart and system configurations are also offered for different user needs. See **PDU Tab > Device Manager**.

	Device Manager			 	
Status	Load Configuration				
Device Manager	Overload Threshold	12 A			
Outlet Manager Wake on Lan	Near Overload Threshold	9 A			
EnergyWise	Low Load Threshold	0 A			
PowerPanel [®] List	Outlet Restriction	None 🔻			
	ColdStart Configuration				
	ColdStart State	O Previous State			
		All On			
	ColdStart Delay	Immediate			
		🔘 Wait 📃 S	second(s)		
		O Never			
	System Configuration				
	Idle Time	1 minute 🔻			
	Local Outlet Control	Enable			

PDU Tab > Device Manager

ltem	Definition
Load Configuration	
	Set the value for the total current placed on the PDU that will signal an
Overload Threshold	overload warning. Must be higher than Near Overload Threshold and
	lower than the PDU <i>Rating</i> in the <u>Summary Tab</u> .
	Set the value for the total current placed on the PDU that will signal a
Near Overload Threshold	near overload warning. Must be higher than Low Load Threshold and
	lower than Overload Threshold.
Low Load Threshold	Set the value for the total current placed on the PDU that will signal a low load warning. Must be lower than <i>Near Overload Threshold</i> .

Item	Definition
	When current load exceeds the corresponding threshold, no outlets will
	be allowed to turn on.
	*None: Users can turn on an outlet even if the device is in Near
Outlet Restriction**	Overload or Overload state.
Outlet Restriction	*On Near Overload: Users cannot turn on an outlet when the device is
	in Near Overload or Overload state.
	*On Overload: Users cannot turn on an outlet when the device is in
	Overload state.
ColdStart Configuration	
	*Previous State: Outlets will return to the same state (on or off) they
	were in prior to the PDU turning off. The ColdStart Delay setting will
ColdStart State	apply when the PDU resumes power.
	*All On: All outlets will turn on when power is restored to the PDU and
	adhere to the configured ColdStart Delay setting.
	*Immediate: Outlets will be turned on immediately when power is
	restored to the PDU.
	*Wait: Outlets will be turned on according to each outlet's Power On
ColdStart Delay	Delay (as shown in PDU Tab > Outlet Manager > Configuration) when
Coldstart Deldy	power is restored to the PDU.
	Valid values are within the range of 1 to 300 seconds.
	*Never: The outlet(s) will not turn on when power is restored to the
	PDU.
System Configuration	
Idle Time	The PDU LCD screen will turn off automatically after it remains idle for
	the selected period of time.
Local Outlet Control	Enable or disable local outlet control function that turns on/off the
	outlet via the PDU LCD screen.

**For some models, the Outlet Restriction only shows in the Bank Manager Window.

2.5 Event Action Notification

Users decide the event actions for which they receive notifications. When a certain event happens, an automatic notification will be sent to users so that they can make timely decisions to prevent potential problems. See **System Tab > Notification**.

	Event Action						
General Network Service Notification Event Action	Device Events PDU Status Power Status Configuration Communication	Outlet Control Outlet Status Environment Sensor	System Events Security System Information PowerPanel				
SMTP Server E-mail Recipients	Event			Log	E-mail	Тгар	SMS
Trap Receivers		crossed the low load threshold		e e	•	•	ome
SMS Service	The low load con	dition on a PDU has been cleared					
SMS Recipients Reset/Reboot About	Current draw has	cross the near overload threshold					
	The near overloa	d condition on a PDU has been clea	ared				
	Current draw has	Current draw has crossed the overload condition					
	The overload condition on a PDU has been cleared						

System Tab > Notification > Event Action

Click the **Event** field to open the Event Action Window.

General Event Name Current draw has crossed the low load threshold Network Service Logs Event Enable Notification Bend E-mail Enable Event Action Post Trap Enable SMTP Server Post Trap Enable E-mail Recipients Send SMS Enable SMS Service Apply Cancel SMS Recipients Enable Enable		Event Action	
Notification Send E-mail Enable Event Action Post Trap Enable SMTP Server Post Trap Enable E-mail Recipients Send SMS Enable Trap Receivers SMS Service Apply SMS Recipients Reset/Reboot Enable		Event Name	Current draw has crossed the low load threshold
Event Action Send E-mail Enable SMTP Server Post Trap Enable E-mail Recipients Send SMS Enable Trap Receivers Enable Enable SMS Service Apply Cancel SMS Recipients Enable Enable		Logs Event	C Enable
SMTP Server Post Trap Image: Enable E-mail Recipients Send SMS Enable Trap Receivers Enable Enable SMS Service Apply Cancel SMS Recipients Enable Enable		Send E-mail	Enable
E-mail Recipients Send SMS Enable Trap Receivers SMS Service Apply Cancel SMS Recipients Reset/Reboot		Post Trap	Enable
Trap Receivers SMS Service Apply Cancel SMS Recipients Reset/Reboot		Send SMS	Enable
SMS Recipients Reset/Reboot			
Reset/Reboot	SMS Service	Apply Ca	ancel
	SMS Recipients		
About	Reset/Reboot		
	About		

Event Action Window

The Event Action Window enables users to modify the notification method.

Item	Definition
Logs Event Record the device event in the <i>Event Logs</i> in <u>Logs Tab > Maintenance</u> .	
Send E-mail	Send an email to a specific user.
Send E-mail	An available SMTP server is necessary.
Post Trap Send a SNMP trap to a specific IP address.	
	Send a short message to a specific mobile phone number.
Send SMS	An available Short Message Service (SMS) provider is needed.

2.5.1 Event Action Recipient Settings

The following provides notification receiver configurations.

2.5.1.1 E-mail Notification

Set the proper SMTP server settings so that users can receive an email when a specific event occurs. See **System Tab > Notifications > SMTP Server**.

	U Remote Managen		Summary PD		He
	SMTP Server				
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About	Server's IP/Host Name Sender's E-mail Address Authentication Username Password Encrypted SMTP Access Port Apply Reset	0.0.0 Required Disable TLS SSL 25 [default port: 25]			

System Tab > Notification > SMTP Server

Item	Definition
Server's IP/Host Name	The IP or Host Name of SMTP server used to notify users by E-mail.
Sender's E-mail Address	The From field shown in the e-mail message.
Authentication	Select this option if the SMTP server requires Authentication.
Username	Username used for Authentication.
Password	Password used for Authentication.
Encrypted SMTP	Enable/Disable TLS or SSL to encrypt the SMTP connection.
Access Port	The port number that PDU uses to communicate with SMTP server.

Users can set up to five e-mail recipients in designated email address format. See **System > Notifications >E-mail Recipients**.

	J Remote Management		J Logs System
1	E-mail Recipients		
General	E-mail	Status	Send test Result
Network Service	ted_mosby@cpsww.com.tw	Enabled	TEST
Notification	New Recipient		
Event Action			
SMTP Server			
E-mail Recipients			
Trap Receivers SMS Service			
SMS Recipients			
Reset/Reboot			
About			
, and the second s			
1			

System > Notifications > E-mail Recipients

Item	Definition
	Click the e-mail address of the recipient to open the Configure E-mail
E-mail	Recipient Window. Users can modify the e-mail address, change its status,
	and delete an existing recipient.
TEST	Click this button to check if the SMTP setting and the email recipients are
151	set correctly.
Now Paginiant	Click this button to open the Add New E-mail Recipient Window. Users can
New Recipient	add a new recipient.

Configure E-mail Recipient Window

Add New E-mail Recipient Wind

berPower' PD	U Remote Man	agement	Summary			System	stem Help		
			Summary	1100	Loga	Jystem	IIC		
	Add New E-mail Re	cipient							
General Network Service Notification Event Action SMTP Server	Active E-mail Apply C	Enable							
E-mail Recipients									
Trap Receivers									
SMS Service									
SMS Recipients									
Reset/Reboot									
About									

Intelligent PDU Web Interface

2.5.1.2 SNMP Trap Notification

Set up to 10 SNMP trap receivers to be notified when an event occurs. See **System > Notifications > Trap Receivers**.

	Trap Receivers					
General	Name	Status	Туре	IP Address	Community/ User Name	Send Test
Network Service	Trap Name	Enabled	SNMPv1	0.0.0.0	public	TEST
Notification	Trap Name	Enabled	SNMPv1	0.0.0.0	public	TEST
Event Action	NewReceiver					
SMTP Server						
E-mail Recipients Trap Receivers						
SMS Service						
SMS Recipients						
Reset/Reboot						
About						

System > Notifications > Trap Receivers

Item	Definition
Name	Click on the trap name to open the Configure Trap Receiver Window. Users
Name	can modify or delete an existing receiver.
TEST	Click this button to verify if the trap can be sent.
New Pessiver	Click this button to open the Add New Trap Receiver Window. Users can add
New Receiver	a new recipient.

Configure Trap Receiver Window

Add New Trap Receiver Window

berPower' PDU	U Remote Ma	nagement	PDU	Logs	System	pout∫ Helj
	Add New Trap Re	ceiver				
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About	Active Name IP Address SNMPv1 Community SNMPv3 User Name Apply	Enable Trap Name 0.0.0 public cyber snmpv3 user1 • Cancel				

2. Advanced Power Management

Item	Definition
Name	The name of trap receiver.
IP Address	The IP address of the trap receiver.
SNMPv1	If choosing the SNMPv1 option as the trap type for a trap receiver, select the corresponding community. See <u>System Tab > Network Service ></u> <u>SNMPv1 Service</u> .
SNMPv3	If choosing the SNMPv3 option as the trap type for a trap receiver, select the corresponding user name. See <u>System Tab > Network Service > SNMPv3</u> <u>Service</u> .

2.5.1.2 SMS Notification

Short Message Service (SMS) is used by mobile communication systems to send a short message to a specific mobile phone number. Standardized communication protocols allow the exchange of short text messages between mobile devices. The system provides four methods for users to choose how they want to send a message. See **System > Notifications > SMS Service**.

	Hel
SMS Services	
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About	

System > Notifications > SMS Service

Clickatell method:

Clickatell is one of the supported SMS service providers. Go to the Clickatell website to sign up and get an API ID.

Item	Definition
User name	The account username created on Clickatell website.
User password	The user password created on Clickatell website.
API ID	The API ID acquired on Clickatell website.

	SMS Services	
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers	SMS Method by: Get URL:	Http GET • http://api.clickatell.com/http/sendmsg? user=tedmosby&password=himym&api_id=2014331&to=E_PHON E_NUMBER&text=E_MESSAGE
SMS Service		
SMS Recipients		
Reset/Reboot		
About		

System > Notifications > SMS Service

HTTP GET method:

Use the example where Clickatell is the SMS provider.

The basic form of URL using the HTTP GET method is:

http://api.clickatell.com/http/sendmsg?user=tedmosby&password=himym&api_id=2014331&to=E_PHON E_NUMBER&text=E_PHONE_MESSAGE

Query String in the URL	Definition
user=tedmosby	Replace "tedmosby" with the user name created at the Clickatell website.
password=himym	Replace "himym" with the password created at the Clickatell website.
api_id=2014331	Replace "2014331" with the API ID acquired at the Clickatell website.
to=E_PHONE_NUMBER	Do not replace this information. It refers to the receiver phone number
	entered in System Tab > Notifications > SMS Recipients.
	Do not replace this information. It refers to the event action sent by the SMS
text=E _MESSAGE	service provider. For configurations, see System Tab > Notification .

	SMS Services	
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About	SMS Method by: POST URL: POST body: Apply Can	Http POST http://api.clickatell.com/http/sendmsg user=tedmosby&password=himym&api_id=2014331&to=E_PHON E_NUMBER&text=E_MESSAGE cel

System > Notifications > SMS Service

HTTP POST method:

Use the example where Clickatell is the SMS provider.

The basic form of URL is: http://api.clickatell.com/http/sendmsg

The basic form of body is:

user=tedmosby&password=himym&api_id=2014331&to=E_PHONE_NUMBER&text=E_MESSAGE

Query String in Body	Definition
user=tedmosby	Replace "tedmosby" with the user name created at the Clickatell website.
password=himym	Replace "himym" with the password created at the Clickatell website.
api_id=2014331	Replace "2014331" with the API ID acquired at the Clickatell website.
to=E_PHONE_NUMBER	Do not replace this information. It refers to the receiver phone number entered in <u>System Tab > Notifications > SMS Recipients</u> .
text=E_ MESSAGE	Do not replace this information. It refers to the event action sent by SMS service provider. For configurations, see <u>System Tab > Notification</u> .

General		
General General General General General General Methods Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About	MS Method by: SMTP MAIL Recipient: ted_mosby@cpsww.com.tw Subject: PDU Event Content: E_MESSAGE and E_PHONE_NUMBER Apply Cancel	

System > Notifications > SMS Service

SMTP Mail method:

Users set the SMTP server in <u>System Tab > Notifications > SMTP Server</u> first, and then enter the following information.

Item	Definition
Recipient	Enter the e-mail of the recipient.
Subject	The Subject field shown in the e-mail message, entered by user.
Content	
E MESSAGE	Do not replace this information. It refers to the event action sent by SMS
E_ MESSAGE	service provider. For configurations, see <u>System Tab > Notification</u> .
E PHONE NUMBER	Do not replace this information. It refers to the receiver phone number
	entered in System Tab > Notifications > SMS Recipient.

Users can set up to 10 mobile phone numbers as SMS recipients who will receive a short message notification when a specific event occurs. See **System Tab > Notifications > SMS Recipients**.

		Administrator login from 192	.168.27.49 🔒 [Log
erPower PDU	U Remote Management	Summary PDU Lo	gs System
	SMS Recipients		
General	Status Recipient Name	Mobile Number	Send Test
letwork Service	Enabled Ted	0910000111	TEST
Notification	New Recipient		
Event Action			
SMTP Server			
E-mail Recipients			
Trap Receivers			
SMS Service			
SMS Recipients			
Reset/Reboot About			
About			

System Tab > Notifications > SMS Recipients

Item Definition			
Recipient Name/	Click the name or mobile number of the recipient to open the Configure		
Mobile Phone	SMS Receiver Window. Users can modify or delete an existing receiver.		
TEST	Click this button to check whether the test message is correctly sent.		
New Recipient	Click this button to open the Add New SMS Receiver Window. Users can add		
	a new recipient.		

	Configure SMS Recip	ient			
General Network Service Notification Event Action	Active SMS Recipient Mobile Number	✓ Enable Ted 0910000111			
SMTP Server	Apply Car	Delete			
E-mail Recipients					
Trap Receivers					
SMS Service					
SMS Recipients					
Reset/Reboot					
About					

Configure SMS Receiver Window

Add New SMS Receiver Window

hor Doword DIDI	J Remote Managen	nont				68.25.17 🔒 [Lo	
yperrower PDC	J Kemote Managen	nent	Summary	PDU	Logs	System	Hel
	Add New SMS Recipient						
General Network Service Notification Event Action SMTP Server E-mail Recipients Trap Receivers SMS Service SMS Recipients Reset/Reboot About		Enable					

Intelligent PDU Web Interface

3. Outlet Management

The following provides the outlet configurations to meet different application conditions.

3.1 Remote Outlet On/Off/Reboot

Users can turn on, turn off, or reboot outlets. See **PDU Tab > Outlet Manager > Control.** (For Switched PDU models only.)

	-							
Status Device Manager	Control Action Delay		n	Turn On	۲]		
Outlet Manager				Yes				
Control	Outlet	t Selecti	on	All				
Schedule		State	#	Name				
Configuration		ON	1	Outlet1				
Account		ON	2	Outlet2				
Wake on Lan		ON	3	Outlet3				
EnergyWise		ON	4	Outlet4				
PowerPanel [®] List		ON	5	Outlet5				
		ON	6	Outlet6				
		ON	7	Outlet7				
		ON	8	Outlet8				
	Ne	ext »	C	ancel				

PDU Tab > Outlet Manager > Control

ltem	Definition				
Control Action					
Turn On	Selected outlets will be immediately turned on.				
Turn On + Delay	Selected outlets will be turned on according to each outlet's Power On				
	Delay in PDU Tab > Outlet Manager > Configuration.				
Turn Off	Selected outlets will be immediately turned off.				
Turn Off + Delay	Selected outlets will be turned off according to each outlet's Power Off				
	Delay in PDU Tab > Outlet Manager > Configuration.				
	This action could signal the PC to shut down, if PowerPanel Business				
	Edition Client software is installed on it.				

Item	Definition				
	Selected outlets will be immediately turned off and then be turned on				
Reboot	again according to each outlet's Reboot Duration in PDU Tab > Outlet				
	Manager > Configuration.				
	Selected outlets will be turned off in sequence according to each				
Reboot + Delay	outlet's Power Off Delay. Then they will be synchronized with the				
	longest Power Off Delay and the longest Reboot Duration of the				
	selected outlets. They will be turned on in sequence according to each				
	outlet's <i>Power On Delay</i> in <u>PDU Tab > Outlet Manager > Configuration</u> .				
Cancel Pending Command	Any pending commands of the selected outlet(s) will be cancelled. Any				
	outlet in a pending command state will be notated with an (*) asterisk.				
Outlet Selection	Outlets selected for action.				

3.2 Scheduled Outlet On/Off/Reboot

Outlets can be set to automatically turn on, turn off, or reboot at scheduled times. See **PDU Tab > Outlet Manager > Schedule**. (For Switched PDU models only.)

	Schedule						
Status	Schedule	d Action					
Device Manager	Status	Name	Action	Action Time	Frequency	Outlets	
Outlet Manager							
Control	Add New	Action Sche	edule				
Schedule	Frequenc	y @	One Time				
Configuration		(Per Day				
Account		(Per Week				
Wake on Lan	Next»						
EnergyWise	HOME #						
PowerPanel [®] List							

PDU Tab > Outlet Manager > Schedule

Select the **One Time**, **Per Day** or **Per Week** option, and then click the **Next** button to open the Add New Action Schedule Window.

Item	Definition
Frequency	
One Time	Scheduled action takes place once at the configured date and time.
Per Day	Scheduled action takes place daily at the configured time.
Per Week	Scheduled action takes place once a week for the configured day and time.

berPower PD	U Remote Management	Summary PDU Logs System He
	Add New Action Schedule - One Time	
Status Device Manager Outlet Manager	Enable 🖉 Name Schedule Name	
Control	Control Action Turn On	
Schedule	Delay Yes	
Configuration Account	Action Time 8 • / 7 • at 16	3 ▼ : 24 ▼
Wake on Lan	Outlet Selection All	
EnergyWise	# Name	
PowerPanel [®] List	1 Outlet1	
	2 Outlet2	
	3 Outlet3	
	4 Outlet4	
	5 Outlet5	
	6 Outlet6 7 Outlet7	
	8 Outlet8	
	Apply Cancel	

Add New Action Schedule Window

Up to 10 scheduled settings are allowed.

Item	Definition
Enable	Check this box to activate the scheduled shutdown function.
Name	The name entered by the user to identify the specific scheduled event.
Control Action	The action will be performed when the scheduled event takes place.
Action Time	The time at which the scheduled event takes place.
Outlet Selection	Outlets selected for the scheduled event.

3.3 Sequencing Power On/Off

Enable users to turn on, turn off, or reboot the outlets in sequence. When powering on the connected devices, the sequential power-on method is recommended to avoid high inrush current. (For Switched PDU models only.) See **PDU Tab > Outlet Manager > Configuration**.

Status Device Manager Outlet Manager Control ScheduleOutlet NameOn DelayOff DelayReboot Duration1. Outlet 13 sec3 sec5 sec333<		Configuration			
Outlet Manager 2. Outlet2 3 sec 3 sec 5 sec Control 3. Outlet3 3 sec 3 sec 5 sec Schedule 4. Outlet4 3 sec 3 sec 5 sec Configuration Account 5. Outlet5 3 sec 3 sec 5 sec Make on Lan 6. Outlet6 3 sec 3 sec 5 sec PowerPanel® List 7. Outlet7 3 sec 3 sec 5 sec	Status	Outlet Name	On Delay	Off Delay	Reboot Duration
Control 3. Outlet3 3 sec 3 sec 5 sec Configuration Account 6. Outlet6 3 sec 3 sec 5 sec Make on Lan 6. Outlet6 3 sec 3 sec 5 sec PowerPanel® List 8. Outlet8 3 sec 3 sec 5 sec	Device Manager	1. Outlet1	3 sec	3 sec	5 sec
Schedule 3. Outlet3 3 sec 3 sec 5 sec Configuration 4. Outlet4 3 sec 3 sec 5 sec Account 5. Outlet5 3 sec 3 sec 5 sec Make on Lan 6. Outlet6 3 sec 3 sec 5 sec FnergyWise 7. Outlet7 3 sec 3 sec 5 sec 8. Outlet8 3 sec 3 sec 5 sec	Outlet Manager	2. Outlet2	3 sec	3 sec	5 sec
Configuration 4. Outlet4 3 sec 3 sec 5 sec Account 5. Outlet5 3 sec 3 sec 5 sec Make on Lan 6. Outlet6 3 sec 3 sec 5 sec FnergyWise 7. Outlet7 3 sec 3 sec 5 sec PowerPanel® List 3 sec 3 sec 5 sec	Control	3. Outlet3	3 sec	3 sec	5 sec
Account 5. Outlet5 3 sec 3 sec 5 sec Wake on Lan 6. Outlet6 3 sec 3 sec 5 sec EnergyWise 7. Outlet7 3 sec 3 sec 5 sec owerPanel® List 8. Outlet8 3 sec 3 sec 5 sec		4. Outlet4	3 sec	3 sec	5 sec
Wake on Lan 6. Outlet6 3 sec 3 sec 5 sec EnergyWise 7. Outlet7 3 sec 3 sec 5 sec owerPanel® List 3 sec 3 sec 5 sec		5. Outlet5	3 sec	3 sec	5 sec
EnergyWise 7. Outlet7 3 sec 3 sec 5 sec owerPanel® List 8. Outlet8 3 sec 3 sec 5 sec		6. Outlet6	3 sec	3 sec	5 sec
werPanel® List 8. Outlet8 3 sec 3 sec 5 sec		7. Outlet7	3 sec	3 sec	5 sec
		8. Outlet8	3 sec	3 sec	5 sec
		Multi »			

PDU Tab > Outlet Manager > Configuration

Click the **Outlet Name** field to open the Each Outlet Configuration Window and configure the delay duration setting. Or click **Multi** >> to open the Multiple Outlet Configuration Window and configure the mutual time setting for the selected multiple outlets.

	Configuration	
Status Device Manager	Name	Outlet1
Outlet Manager Control Schedule	Power On Delay	Immediate Delay 3 Second(s) [1-7200] Never
Configuration	Power Off Delay	Immediate
Account Wake on Lan EnergyWise		Delay 3 Second(s) [1-7200] Never
PowerPanel [®] List	Reboot Duration	5 Second(s) [5-60]
	Apply Ca	ncel

Each Outlet Configuration Window

Multiple Outlet Configuration Window

	Configura	tion	
Status	Name		
Device Manager	Power C	n Delay	Immediate
Outlet Manager			Delay Second(s) [1-7200]
Control			Never
Configuration	Power C	ff Delay	O Immediate
Account			Delay Second(s) [1-7200]
Wake on Lan			Never
EnergyWise			
PowerPanel [®] List	Reboot	Duration	Second(s) [5-60]
	Apply to	Outlets	All
	#	Name	
	1	Outlet1	
	2	Outlet2	
	3	Outlet3	
	4	Outlet4	
	5	Outlet5	
	6	Outlet6	
	7	Outlet7	
	8	Outlet8	

Item	Definition
Name	The name entered by the user to identify the selected outlet or multiple outlet
Name	configuration.
	*Immediate: Turn on the outlet immediately.
Power On Delay	*Delay: Delay time before turning on the outlet. Valid values are within the
	range of 1 to 7,200 seconds.
	*Never: Do not turn on the outlet.
Power Off Delay	Delay time before turning off the outlet. Valid values are within the range of 1
Power On Delay	to 7,200 seconds.
Reboot Duration	Duration time the outlet will remain off during a Reboot action. Valid values
	are within the range of 5 to 60 seconds.
Apply to Outlets	Outlets selected for the scheduled event.

3.4 Wake on Lan (WoL)

When turning on an outlet, the connected computer can be sent a Wake on LAN packet via the network. Make sure the computer supports this function and is configured as "Enable" in its BIOS settings. See PDU Tab > Wake on Lan > WoL Features and PDU Tab > Wake on Lan > WoL Lists. (For Switched PDU models only.)

	WoL Features	
Status	PowerPanel Client	
Device Manager	Load/Sync with PowerPanel Client List	
Outlet Manager		
Wake on Lan	Wake Conditions	
WoL Features	Outlet Turned On	
WoL Lists		
EnergyWise	Apply Reset	
PowerPanel [®] List	Арру	

PDU Tab > Wake on Lan > WoL Features

ltem	Definition
	Synchronize with PowerPanel Client List. To achieve synchronization, make sure
PowerPanel Client	PDU has established communication with PowerPanel Business software. See
	System > General > Security.
Wake Conditions	Enable or disable the Wake on Lan function.

	WoL Lists				
Status	WoL Client	List			
Device Manager	Status	IP Address	MAC Address	Outlet	Send test
Outlet Manager					
Wake on Lan					
WoL Features	Mal Manua	11 :			
WoL Lists	WoL Manua			0	0 d to - t
EnergyWise	Status	IP Address	MAC Address	Outlet	Send test

PDU Tab > Wake on Lan > WoL Lists

Item	Definition
	If the PowerPanel Client option in PDU Tab > Wake on Lan > WoL Features is
WoL Client List	selected, the PowerPanel [®] List will be automatically added to the WoL Client
	list.
WoL Manual List	Click New to open the Add Wake on Lan Receiver Window. Users can add
wol wanuai list	another WoL receiver.

	Add Wake on Lan Receiver	
Status Device Manager Outlet Manager	Active C Enable	
Wake on Lan WoL Features	Outlet	
WoL Lists	# Name	
EnergyWise	1 Outlet1	
PowerPanel [®] List	2 Outlet2	
	3 Outlet3	
	4 Outlet4	
	5 Outlet5	
	6 Outlet6	
	7 Outlet7	
	8 Outlet8	

Add Wake on Lan Receiver Window

ltem	Definition
Active	Enable/Disable the Wake on Lan function.
IP Address	The IP address of the computer. This IP must be in the same subnet with the
II Address	PDU. Up to 50 IP addresses can be added.
Outlet	Select the outlet that provides power to the computer.

3.5 Graceful Computer Shutdown

After the connected computer is installed with PowerPanel Business Edition Client or Center and establishes communication with the PDU, its IP address will be automatically displayed in the PowerPanel List shown below. This computer can perform a graceful shutdown before the outlet powering the computer turns off, thus avoiding data loss. To achieve communication between the computer and PDU, see **System > General > Security**.

Up to 50 computers having PPBE Client or Center installed can be listed. A Client or Center computer will be removed when it has been disconnected from the PDU for one hour. See **PDU Tab > PowerPanel® List**. (For Switched PDU models only.)

berPower PD	U Remote Ma	nagem	ent		Summary PDU	Logs System
	PowerPanel [®] List					
Status	IP Address	Туре	Outlet	Name	Location	Contact
Device Manager	Il Address	Type	outier	Hume	Location	Condict
Outlet Manager						
Wake on Lan						
EnergyWise						
PowerPanel [®] List						
i offerralier List						

PDU Tab > PowerPanel[®] List

Click the IP address of a client to access configuration settings.

3.6 Cisco EnergyWise

Users can manage and control all Cisco EnergyWise entities and configure settings. See PDU Tab > EnergyWise > Configuration and PDU Tab > EnergyWise > Children List.

yberPower' PDI	U Remote Manage	ment		5.17 8 [Logou System H
	EnergyWise Configuration	on		
Status Device Manager Outlet Manager Wake on Lan EnergyWise	Version EnergyWise Port Domain Name	1.2.0 Enable 43440		
Configuration Children List PowerPanel [®] List	 Off-State Cache Secure Mode Shared Secret Apply Canc 	el		

PDU Tab > EnergyWise > Configuration

Item	Definition
Version	The version of EnergyWise.
EnergyWise	Enable/Disable EnergyWise support.
	The port number is used to communicate with EnergyWise.
Port	This number must be the same as that of a Cisco switch that the PDU connects
	to.
Domain Name	The EnergyWise domain name.
Domain Name	This must be the same as that of a Cisco switch that the PDU connect to.
Off-State Cache	Enable/Disable endpoint to cache EnergyWise list in the Cisco switch after the
On-State Cache	PDU has rebooted.
Secure Mode	Enable EnergyWise use of a shared secret.
Shared Secret	The secret for the EnergyWise domain.

	Energy	Wise Children List			
Status	Pare	nt			
Device Manager	#	Name	Role	Keywords	importance
Outlet Manager	1	PDU_Base	base,role	endpoint,child,base	1
Wake on Lan	Child	iren			
EnergyWise	#	Name	Role	Keywords	importance
Configuration	1	Outlet1	outlet,role	endpoint,child,outlet	1
Children List	2	Outlet2	outlet,role	endpoint,child,outlet	1
PowerPanel [®] List	3	Outlet3	outlet,role	endpoint,child,outlet	1
	4	Outlet4	outlet,role	endpoint,child,outlet	1
	5	Outlet5	outlet,role	endpoint,child,outlet	1
	6	Outlet6	outlet,role	endpoint,child,outlet	1
	7	Outlet7	outlet,role	endpoint,child,outlet	1
	8	Outlet8	outlet,role	endpoint,child,outlet	1
	9	Bank1	bank,role	endpoint,child,bank	1

PDU Tab > EnergyWise > Children List

Click the **Name** field in parent and/or children list to open the EnergyWise Parent Configuration Window and EnergyWise Child Configuration Window.

1	EnergyWise Parent Confi	guration		
Status Device Manager Outlet Manager Wake on Lan EnergyWise Configuration Children List PowerPanel [®] List	Name Role Keywords Importance Apply Cance	PDU_Base base,role endpoint,child,base 1		

EnergyWise Parent Configuration Window

EnergyWise Child Configuration Window

	EnergyWise Child Config	uration	 		
Status	Name	Outlet1			
Device Manager	Role	outlet,role			
Outlet Manager	Keywords	endpoint,child,outlet			
Wake on Lan	Importance	1			
EnergyWise					
Configuration	Apply Canc	el			
Children List					

Item	Definition
Name	The name entered by the user to identify an EnergyWise entity.
Role	This parameter is a string entered by the user to describe the function of the
Noie	entity. Maximum length is 31 characters.
Keywords	This parameter is a string entered by the user to describe the entity.
Reywords	Maximum length is 31 characters.
Importance	This parameter, entered by the user, shows the value of an entity importance
Importance	and must be between 1 and 100.

4. Security

Account configurations protect against unauthorized entry.

4.1 User Account

Configure the login account. Only one user at a time may log in to the web interface. See **System Tab> General > User Account**.

	User Account			
General	Administrator			
User Account	User Name	cyber		
Date & Time	Current Password			
Identification	New Password			
Security	Confirm Password			
Network Service	Admin Manager IP			
Notification	Enable	0.0.0.0		
Reset/Reboot	Enable	0.0.0.0		
About	Viewer			
	Allow Access	C Enable		
	User Name	device		
	New Password			
	Confirm Password			
	Viewer Manager IP			
	Enable	0.0.0.0		
	Enable	0.0.0.0		

S١	<i>i</i> stem	Tab	>	General	>	User	Account
5	Juli	IUN	-	General		UJUI	Account

ltem	Definition
Administrator	The administrator can access all functions, including Enable/Disable the Viewer
	account.
User Name	Enter the new user name.
Current Password	Enter the current password for authentication.
New Password	Enter the new password.
Confirm Password	Enter the new password again to confirm it.
Admin Manager IP	Set the Admin IP which is allowed access. If you want access from any IP
(optional)	address, you can set one of them as 0.0.0.0 or 255.255.255.255.

Item	Definition
Viewer	The viewer can view the settings but cannot control or change any settings.
Viewer Manager	Set the Viewer IP which is allowed access. If you want access from any IP
IP(optional)	address, you can set one of them as 0.0.0.0 or 255.255.255.255.

4.2 Outlet Account

With the given account and password, users are only allowed to control assigned outlets. See PDU Tab > Outlet Manager > Account. (For Switched PDU models only.)

	T.D			Administrator login from	
yberPower' PD	U Remote	Management		Summary PDU	Logs System H
	Account				
Status	Status	User Name	Password	Manageable Outlets	
Device Manager		User Maine	Passworu	manageable Outlets	
Outlet Manager	New				
Control					
Schedule					
Configuration					
Account					
Wake on Lan					
EnergyWise					
PowerPanel [®] List					

PDU Tab > Outlet Manager > Account

Click **New** to open the Add Account Window.

	Add Account		
Status Device Manager Outlet Manager Control Schedule	Active User Name Password	Enable	
Configuration	Outlet Selection	All	
Account	# Name		
Wake on Lan	1 Outlet1		
EnergyWise	2 Outlet2		
PowerPanel [®] List	3 Outlet3		
	4 Outlet4		
	5 Outlet5		
	6 Outlet6		
	7 Outlet7		
	8 Outlet8		
	Apply Can	cel	

Add Account Window

ltem	Definition
Active	Enable or disable the user account.
User Name	Set a name for the user account.
Password	Set the user password.
Outlets Selection	Outlets that the user can access.

4.3 Timeout Setting

Configure the idle login sessions and authentication phrase. See **System > General > Security**.

	Security				
General User Account Date & Time Identification	Login Session Timeout Authentication	10 • minute(s)			
Security Network Service Notification Reset/Reboot About	Secret Phrase Apply Cancel	powerpanel.encryptior	, , , , , , , , , , , , , , , , , , ,		

System > General > Security

ltem	Definition
Login Session	
Timeout	The minutes that the system waits before automatically logging off.
Authentication	
Secret Phrase	The authentication phrase is used to communicate with PowerPanel Business Edition software. This phrase should be the same as Secret Phase field on PowerPanel Business Edition software interface.

5. Network Service

The following provides the network configurations.

5.1 TCP/IPv4 Setting

Display the current TCP/IPv4 settings and allow users to select the option to obtain TCP/IP settings by DHCP. See **System > Network Service > TCP/IPv4**.

	TCP/IPv4	
General	Current Configuration	
Network Service	IP Address	192.168.26.97(DHCP Timeout)
TCP/IPv4	Subnet Mask	255.255.255.0
TCP/IPv6	Gateway	192.168.26.254
SNMPv1 Service	DNS Server	192.168.20.129
SNMPv3 Service	DHCP	
Web Service	Enable DHCP	
Console Service	Obtain DNS Address from DH	CP
FTP Service	Manual	
Notification	IP Address	192.168.26.97
Reset/Reboot	Subnet Mask	255.255.255.0
About	Gateway	192.168.26.254
hoode	DNS Server	192.168.20.129
	Apply Cancel	

System > Network Service > TCP/IPv4

Item	Definition
Current	Display the current TCP/IP settings: IP Address, Subnet Mask, Gateway, and
Configuration	DNS server.
	*Enable DHCP: Select this option to get IP address, Subnet Mask, and Gateway
DHCP	from DHCP.
	*Obtain DNS Address from DHCP: Select this option to get DNS by DHCP if
	DHCP is enabled.
Manual	Enter the TCP/IP settings manually and click Apply .

5.2 TCP/IPv6 Setting

Display the current TCP/IPv6 settings and allow users to assign the IPv6 address either by router control or manually. See **System > Network Service > TCP/IPv6**.

	TCP/IPv6			
General Network Service TCP/IPv4	IPv6 Interfaces Type	IPv6 Address		
TCP/IPv6 SNMPv1 Service SNMPv3 Service	IPv6 Gateway N/A			
Web Service Console Service FTP Service Notification Reset/Reboot	IPv6 Configuration Allow Access Address Mode	 Enable Router Control Manual 		
About	Manual IPv6 Addres System IP Addres			
	Apply Reset			

System > Network Service > TCP/IPv6

Item	Definition
IPv6 Interface	Displays the current IPv6 address.
IPv6 Gateway	Displays the current IPv6 gateway.
IPv6 Configuration	
Allow Access	Enable/Disable IPv6 service.
Address Mode: Router Control	The IPv6 address is assigned through the method (Stateless Address Auto configuration, Stateless DHCPv6, or Stateful DHCPv6) determined by the router's configuration.
Address Mode: Manual	The IPv6 address is assigned manually.
Manual IPv6 Address	Enter the IPv6 address manually and click Apply when the Address Mode: Manual option is selected.

5.3 SNMPv1 Service Setting

Allow users to perform SNMPv1 configurations. See **System Tab > Network Service > SNMPv1 Service**.

General Network Service TCP/IPv4	SNMPv1 Service Allow Access		
	Allow Access		
101/1111	Allow Access		
TCP/IPv6	Apply Res	et	
SNMPv1 Service	Contrast of Contrast		
SNMPv3 Service	SNMPv1 Access Co	ntrol	
Web Service	Community	IP	Access Type
FTP Service	public	0.0.0.0	Read Only
Notification	private	0.0.0.0	Read/Write
Reset/Reboot	public2	0.0.0.0	Forbidden
About	public3	0.0.0.0	Forbidden
About	public3	0.0.0.0	Forbidden

System Tab > Network Service > SNMPv1 Service

Item	Definition
SNMPv1 Service	
Allow Access	Enable or disable the SNMPv1 service.

Click the **Community** field to open the SNMPv1 Window. Users can configure the SNMPv1 settings.

	SNMPv1			
General	Community Name	public		
Network Service	Access IP	0.0.0.0		
TCP/IPv4	Access Type	Read Only V		
TCP/IPv6				
SNMPv1 Service	Apply Cancel			
SNMPv3 Service				
Web Service				
Console Service				
FTP Service				
Notification				
Reset/Reboot				
About				

SNMPv1 Window

Item	Definition
Community Namo	The name is used to access the SNMP community from a Network Management
Community Name	System (NMS). Its maximum length is 15 characters.
	The IP address or IP address mask can be accessed by the NMS. A specific IP
	address only allows access by the NMS with the specified IP Address. The "255" is
Access ID	regarded as the subnet mask and the rules are as follows:
Access IP	*192.168.20.255: Access only by an NMS on the 192.168.20.0 segment.
(IPv6 Support)	*192.255.255.255: Access only by an NMS on the 192.0.0.0 segment.
	*0.0.0.0 (the default setting) or 255.255.255.255: Access by any NMS on any
	segments.
	The allowable action for the NMS through the community and IP address.
	*Read Only: GET at anytime but cannot SET.
Access Type	*Write/Read: GET at anytime. SET at anytime unless someone logs in the Web
	interface.
	*Forbidden: No GET or SET.

5.4 SNMPv3 Service Setting

Users can perform SNMPv3 configurations. Authentication type or privacy type are provided to strengthen security. See **System Tab > Network Service > SNMPv3 Service**.

1	SNMPv3				
General Network Service TCP/IPv4	SNMPv3 Service				
TCP/IPv6 SNMPv1 Service	Apply Rese	ət			
SNMPv3 Service	SNMPv3 Access Con	trol			
Web Service	User Name	Status	IP	Authentication	Privacy
	cyber snmpv3 user1	Disabled	0.0.0.0	None	None
	cyber snmpv3 user2	Disabled	0.0.0.0	None	None
	cyber snmpv3 user3	Disabled	0.0.0.0	None	None
	cyber snmpv3 user4	Disabled	0.0.0	None	None
Console Service FTP Service Notification Reset/Reboot About	cyber snmpv3 user1 cyber snmpv3 user2 cyber snmpv3 user3	Disabled Disabled Disabled	0.0.0.0 0.0.0.0 0.0.0.0	None None None	None None None

System Tab > Network Service > SNMPv3 Service

ltem	Definition
SNMPv3 Service	
Allow Access	Enable or disable the SNMPv3 service.

Click the User Name field to open the SNMPv3 Window. Users can configure SNMPv3 settings.

	SNMPv3	
General Network Service TCP/IPv4 TCP/IPv6 SNMPv1 Service	Access Status User Name Authentication Password Privacy Password Access IP	Enable cyber snmpv3 user1 0.0.0.0
SNMPv3 Service Web Service Console Service FTP Service Notification Reset/Reboot About	Authentication Type Privacy Type Apply Reset	None None

SNMPv3 Window

ltem	Definition
Access Status	Enable or disable the SNMPv3 service.
User Name	The name that identifies the SNMPv3 user. It must be 1 to 31 characters long.
Authentication	The password used to generate the key for authentication. It must be 16 to 31
Password	characters long.
Drivacy Dassword	The password used to generate the key for encryption. It must be 16 to 31
Privacy Password	characters long.
	The IP address or IP address mask that can be accessed by the NMS. A specific IP
	address only allows access by the NMS with the specified IP Address. The "255" is
Access IP	regarded as the subnet mask and the rules are as follows:
(IPv6 Support)	*192.168.20.255: Access only by an NMS on the 192.168.20.0 segment.
	*192.255.255.255: Access only by an NMS on the 192.0.0.0 segment.
	*0.0.0.0 (the default setting) or 255.255.255.255: Access by any NMS on any
	segments.
Authentication	The hash type for authentication.
Туре	
Privacy Type	The privacy type for encrypting and decrypting data.

5.5 Web Service

Select the **Enable HTTP** option to access the HTTP/HTTPS Service and configure HTTP/HTTPS port settings. See **System Tab > Network Service > Web Service**.

1	Web Service									
General	Access									
Network Service TCP/IPv4 TCP/IPv6 SNMPv1 Service SNMPv3 Service	Allow Access Http Settings	 Enab Enab Disal 	able H							
Web Service Console Service FTP Service Notification Reset/Reboot About	Http Port Https Settings Https Port Certificate Status: Apply Cancel	80 443 Valid Cer Upload C	[44: ertifica	3 or 51 <u>ate</u>	00-655					

System Tab > Network Service > Web Service

Item	Definition
Access	
	Enable or disable HTTP/HTTPS service.
	HTTPS supports the following encryption algorithms:
	• AES (256/128 bits)
	Camellia (256/128 bits)
Allow Access	• 3DES (168 bits)
	• DES (168 bits)
	• RC4 SHA (128)
	• RC4 MD5 (128)
Http Settings	
	The TCP/IP port of the Hypertext Transfer Protocol (HTTP); 80 is the default value.
HTTP Port	Users can also change the port setting to any unused port from 5000 to 65535 to

Intelligent PDU Web Interface

Item	Definition
	enhance security.
Https Settings	
Https Port	The TCP/IP port of the Hypertext Transfer Protocol Secure (HTTPS); 443 is the default value. Users can also change the port setting to any unused port from 5000 to 65535 to enhance security.
Certificate Status	*Valid Certificate: Display the detailed certificate information. *Upload Certificate: Upload the certificate and replace the current one. The certificate must be uploaded in standard PEM (Privacy Enhanced Mail) format.

Click the <u>Valid Certificate</u> link, and the Installed Certificate Window will appear.

Installed Certificate Window

ssue to Common Name(CN) Organization(O)	Power Distribution Unit
	Power Distribution Unit
Organization(O)	
	CyberPower Systems, Inc.
Organization Unit(OU)	PDU
Locality(L)	Unknown
Country	Unknown
Serial Number	11:1C:76:14
ssue by	
Common Name(CN)	Power Distribution Unit
Organization(O)	CyberPower Systems, Inc.
Organization Unit(OU)	PDU
alidity	
Issued from	05/28/2013
Expires on	05/26/2023
ingerprints	
SHA1 Fingerprint	44 C0 C5 CF 64 41 A0 A5 98 DF 0A B9 B1 BA 2F 3E FD 2B 84 CF
MD5 Fingerprint	DD 84 A4 A3 38 3C BE 3E D9 09 FF 73 6D 53 3E 5C
« Back	
	Serial Number ssue by Common Name(CN) Organization(O) Organization Unit(OU) 'alidity Issued from Expires on ingerprints SHA1 Fingerprint

Click the **<u>Upload Certificate</u>** link, and the Change Certificate Window will appear.

	Change Certificate				
General Network Service	Upload and Replace	Select File			
TCP/IPv4 TCP/IPv6		Submit			
SNMPv1 Service SNMPv3 Service	« Back				
Web Service Console Service					
FTP Service Notification					
Reset/Reboot About					

Change Certificate Window

5.6 Console Service

Select the **Enable** options to allow access using Telnet/SSH service and configure Telnet/SSH port settings. See **System Tab > Network Service > Console Service**.

	Console	
General	Access	
Network Service TCP/IPv4 TCP/IPv6 SNMPv1 Service SNMPv3 Service Web Service	Allow Access Telnet Settings Telnet Port	 Enable Telnet Enable SSH Disable 23 [23 or 5000-65535]
Console Service	TemetPort	23 [23 01 5000-65535]
FTP Service Notification Reset/Reboot About	SSH Settings SSH Port Hostkey Status: Hostkey Fingerprint: Apply Reset	22 [22 or 5000-65535] Valid <u>Upload Hostkey</u> D6 58 DD D3 A6 DF 01 29 50 02 B7 0C 76 03 91 29

System Tab > Network Service > Console Service

Item	Definition
Access	
Allow Access	Enable access using Telnet or SSH version 2, which transmits user names,
Allow Access	passwords, and data in an encrypted format.
Telnet Settings	
	The TCP/IP port that Telnet uses to communicate; 23 is the default value.
	Users can change the port setting to any unused port from 5000 to 65535 to
Telnet Port	enhance security.
	Note: Telnet clients require users to enter a space and the port number after
	the PDU IP address on the command line to access the control console.
SSH Settings	
	The TCP/IP port that SSH uses to communicate; 22 is the default value.
SSH Port	Users can change port setting to any unused port from 5000 to 65535 to
	enhance security.
Hostkey Status	Display the status of hostkey fingerprint to show whether it is valid or invalid.

Intelligent PDU Web Interface

Item	Definition
Hostkey Fingerprint	The hostkey fingerprint uploaded by users will be displayed in this field.

5.7 FTP Service

Allow users to enable/disable the FTP server service and configure the TCP/IP port of the FTP server. The FTP server is used for upgrading Firmware. **See System Tab > Network Service > FTP Service**.

berPower' PDU Remote Management		Administrator login from 192.168.25.17 🕃 [Legou
Juerrouer PDC	5 Kemote Management	Summary PDU Logs System He
	FTP	
General Network Service TCP/IPv4 TCP/IPv6 SNMPv1 Service SNMPv3 Service Web Service Console Service FTP Service Notification Reset/Reboot About	Allow Access I Enable Access Port 21 [21 or 5000-655 Apply Cancel	335]

System Tab > Network Service > FTP Service

Item	Definition	
Allow Access	Enable FTP server access.	
Access Port The TCP/IP port of the FTP server; 21 is the default value.		

6. PDU Information

Display the system information of the PDU. See **System > About**.

	U Remote Management	Summary PDU Logs System
	About	
General	Information	
Network Service	Model Name	PDU15SW8FNET
Notification	Hardware Version	1.1
Reset/Reboot	Firmware Version	2.1.6
About	Firmware Update Date	08/05/2015
	MAC Address	00-0C-15-40-2C-A7
	Save/Restore Configuration	
	Save Configuration	Save
	Restore Configuration	Select File
		Submit
1	1	

System > About

Item	Definition	
Information		
Model Name	Model name of the PDU.	
Hardware Version	The hardware version of the PDU.	
Firmware Version	The version number of the current firmware installed on the PDU.	
Firmware Updated Date	The date the firmware was last updated.	
MAC Address	MAC address of the PDU.	
	Note: The MAC address is shown on the label on the back of the PDU .	
Save/Restore Settings		
Save Configuration	Click Save to save the configuration file to local computer.	
Save Configuration	The text file will have a default format of YYYY_MM_DD_HHMM.txt.	
Restore Configuration	To restore a configuration that has been saved earlier.	
	Click Select File to import an existing file and then click Submit.	