Power Conversion®

SPDU-0615C & SPDU-1415C

User & Installation Manual

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INTRODUCTION

Thank you for choosing the switched 6-Outlet & 14-Outlet Power Distribution Unit. Our PDUs are designed for use in server or network equipment racks. The 6-Outlet is a 0U/1U form factor and the 14-Outlet is a 2U form factor. They are both networking enabled for remote monitoring and configuration. The LCD panel provide convenience for users to view information and measurements in advance.

SPDU-0615C

- PDU
- Power Cord
- Rubber Footpads
- Rack Mount Kit (8*M3 x 5mm Screws, 2 Short Rack Ears, 2 Long Rack Ears)

Quick Installation Guide

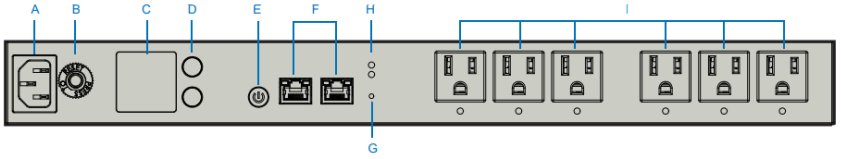
SPDU-1415C

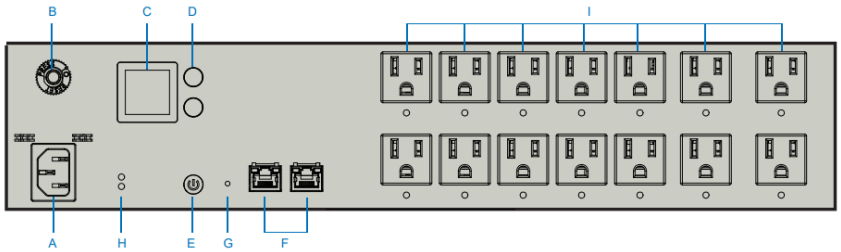
- PDU
- Power Cord
- Rubber Footpads
- Rack Mount Kit (8*M3 x 5mm Screws, 2 Short Rack Ears, 2 Long Rack Ears)
- Quick Installation Guide

Please ensure that all components are present and in optimal working condition before proceeding with installation. If any issues encountered during this process, please promptly contact your dealer for assistance.
It is essential that you read this manual in its entirety and adhere to the installation and operation procedures diligently to prevent any potential damage to the unit or any devices that are connected to the PDU. Following these guidelines will help to ensure the safety and proper functioning of the equipment.

1) Front Panel Description

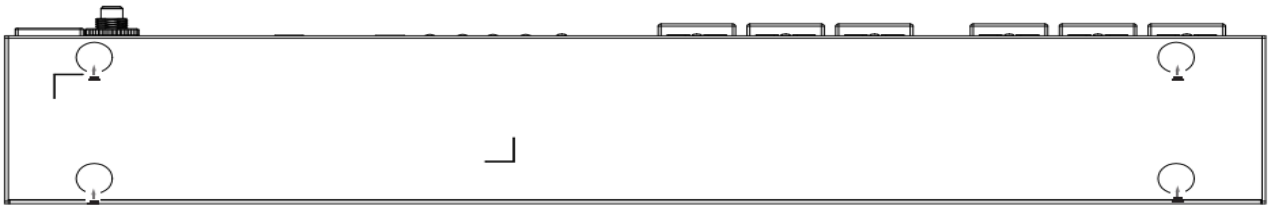
A. AC Inlet - For 3 prong IEC power cord.
B. Circuit Breaker Reset Button – Press this button to restart the PDU to provide overload protection.
C. LCD Panel – Displays critical data
D. LCD Control Buttons – Press this button to navigate through the menus of the LCD panel.
E. AC Power Button – Press this button to manually toggle the outlets on or off.
F. Ethernet Ports – Connect to the Internet for IP control and monitoring.
G. Reset Button – Press and hold 5-8 seconds to reset the system, and press hold 10-20 seconds to restore to factory defaults.
H. Status Indicator – Indicates the condition of the PDU (e.g. Surge Protection, and Grounding).
I. Controllable outlets 1-6 – Provides power for connected equipment. All outlets are switchable (IP controlled).





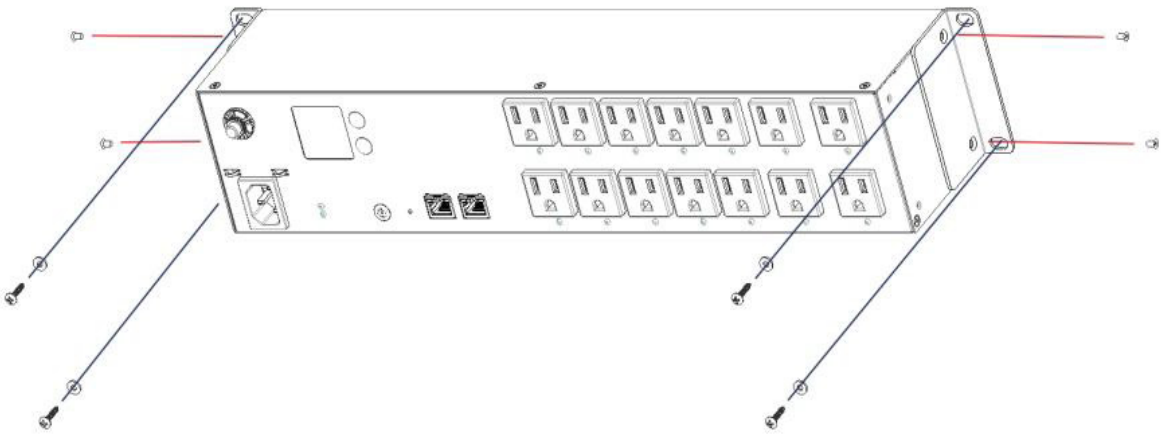
1) Desktop Mounting

Install the PDU on a flat surface. Attach the rubber feet on the bottom at each corner of the PDU. The rubber feet cushion the PDU from shock or vibration, and secure space between devices when stacking.



2) Wall Mounting

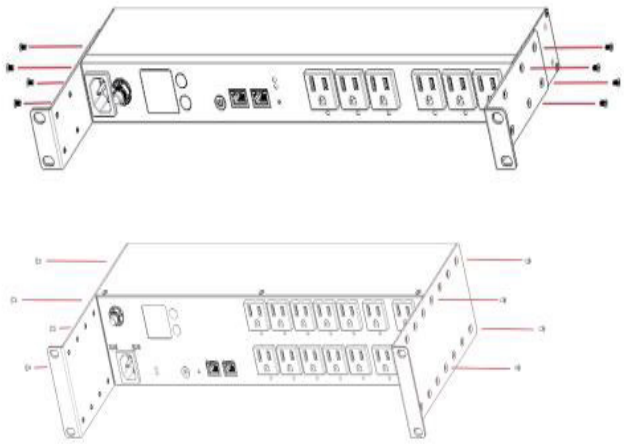
Use the provided rack mount kit to attach the short rack ears (2) to the 14-Port PDU. Then secure the device along with the rack ears to the wall.



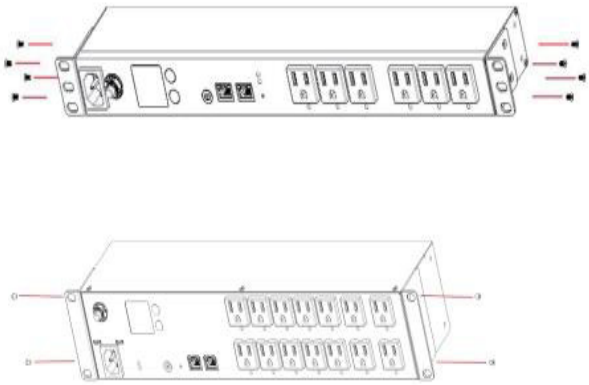
4*T4 x 19 mm Screws, 4*M4 x 6 mm Screws, 4*Drywall Anchors, 4*Washers The 14 Port PDU can be wall mounted with the outlets facing horizontally or vertically

3) **Rack Mounting – 4 Methods**

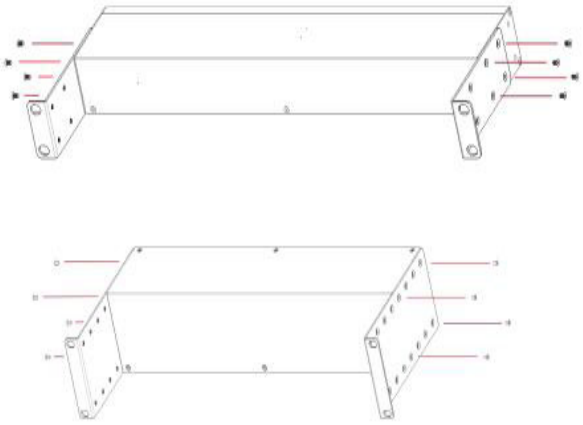
Use the provided Mounting Bracket Screws (8) to attach the SHORT / LONG Rack Ears (2) to the PDU. Then secure the rack ears to the rack.



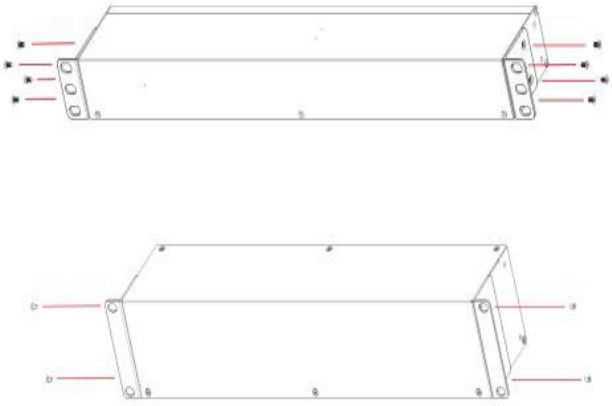
Rack-mount, front-side forward
Long bracket*2
M3 x 5 mm*8 (6-Port)
M4 x 6 mm*8 (14-Port)



Rack-mount, front-side forward
Short bracket*2
M3 x 5 mm*8 (6-Port)
M4 x 6 mm*4 (4-Port)



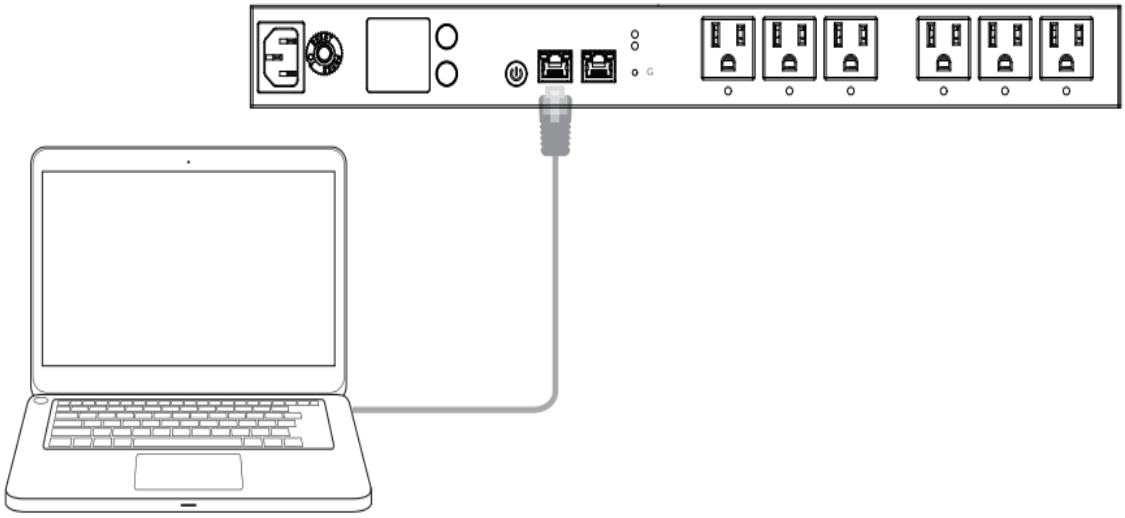
Rack-mount, rear-side forward
Long bracket*2
M3 x 5 mm*8 (6-Port)
M4 x 6 mm*8 (14-Port)



Rack-mount, rear-side forward
Short bracket*2
M3 x 5 mm*8 (6-Port)
M4 x 6 mm*4 (14-Port)

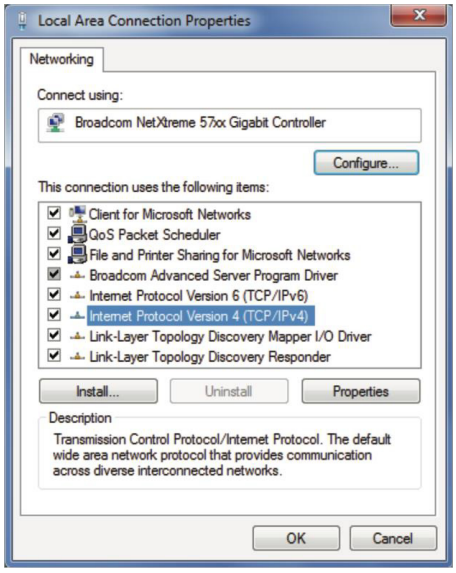
A) Connect the supplied Power cord to the PDU and plug the other end into an electrical outlet. Ensure to connect the power cord to a socket-outlet with earthing connection, or equivalent. Verify the Power and System LED indicator is lit on the PDU. Wait for the PDU to complete boot up. It might take few minutes to complete the process.

B) Connect one end of a Category 5/6 Ethernet cable into the Ethernet port on the front panel and the other end to the Ethernet Port on the computer.

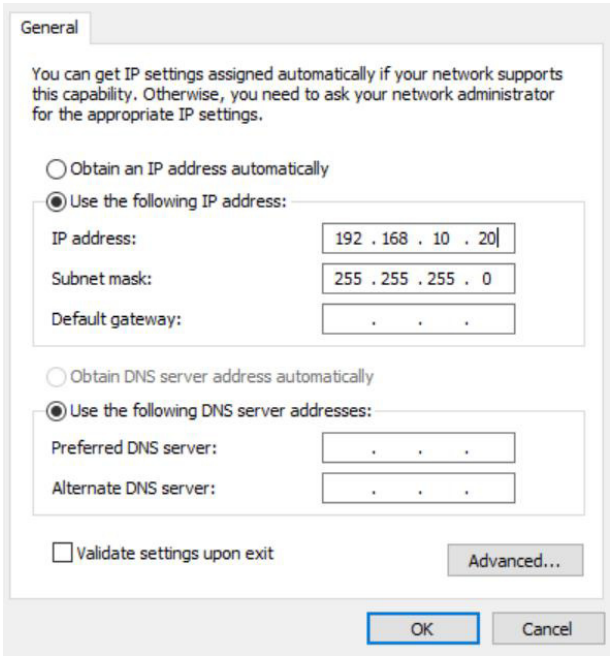


HOW TO LOGIN THE PDU

The PDU default address setting is static IP address. You can follow the below procedures to manage your computer connect to our PDU via the static IP address.
1) IP address configuration on your computer:
A) Once your computer is on, configure the setting of your network adapter. Open Network Connections > Local

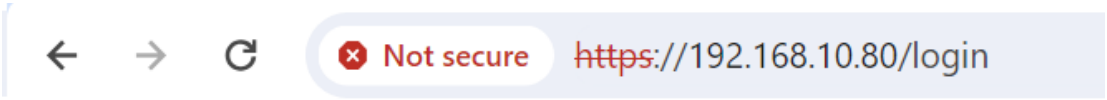


B) Select Use the following IP address and make the following entries: - IP Address: 192.168.10.X (last octet can be any numbers) - Subnet mask: 255.255.255.0



2) Login to the PDU:

1. Open a web browser on your computer. In the address bar of the web browser, enter https://192.168.10.80/
*** Caution*** PDU can be accessed only through this IP address.

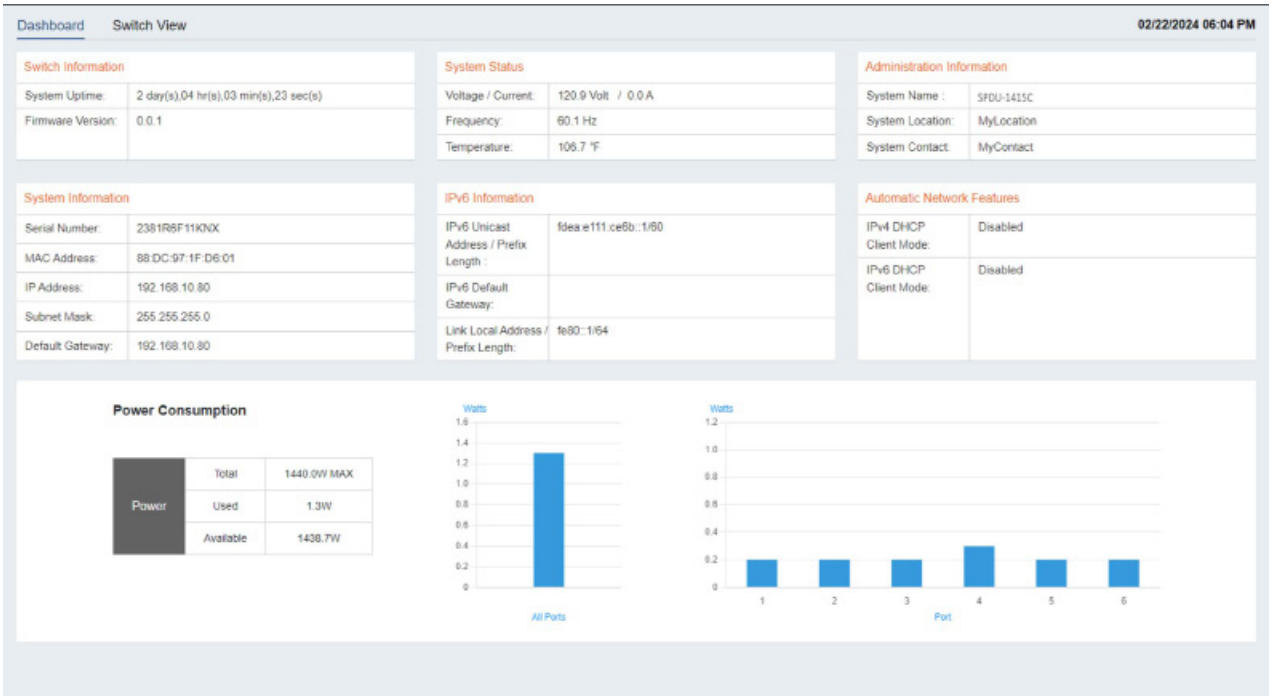


2. The default username is "admin" and the password is "password". Enter the username and password of the PDU and then click Login. *Your model number may be different in the web browser interface.

3. The PDU User Interface will appear. Use it to perform PDU configuration and monitoring. Refer to the User Manual for more information on configuration settings.

PDU WEB USER MANUAL

1) Dashboard: Dashboard page serves as a remote monitoring feature that enables users to monitor the PDU in real-time. After successfully logged in, the Dashboard pages will be presented, featuring the following:



Page Components:

1) Tab Bar

The tab bar comprises the operational categories of PDU system (click on the text for quick navigation):

- Dashboard
- Outlet
- System
- Log

2) Switch Information

No.	Item	Description
1	System Uptime	The duration of time that the system has been continuously operational without any interruption or downtime.
2	Firmware Version	Current version of software that is installed on the PDU. To upgrade the PDU firmware version, please visit System > Firmware > Firmware for more details.

3) System Status

No.	Item	Description
1	Voltage	The amount of electrical power that is being supplied to connected devices or equipment representing in volts (V).
2	Current	The flow of eclectic charge in amperes (Amps) through the connected electrical circuit.
3	Frequency	Number of cycles per second that the alternating current (AC) power supply completes measured in Hertz (Hz).
4	Temperature	The measurement of the ambient air temperature in the vicinity of the PDU measured in degree Celsius.

4. Administration Information

No.	Item	Description
1	System Name	User-defined name of the PDU. SPDU-0615C/SPDU-1415C by default. To configure the device name, please visit System > System Settings > General for more details.
2	System Location	User-defined location of the PDU / My Location by default. To configure the location name, please visit System > System Settings > General for more details.
3	System Contact	User-defined contact of the PDU / My Location by default. To configure the contact name, please visit System > System Settings > General for more details.

5. System Information

No.	Item	Description
1	Serial Number	Unique identification number assigned by Emplus to the PDU. Note: The Serial Number can be found on the label located on the rear side of the PDU.
2	MAC Address	Unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment. Note: The MAC address can be found on the label located on the rear side of the PDU.
3	System Contact	User-defined contact of the PDU / My Location by default. To configure the contact name, please visit System > System Settings > General for more details.
4	Subnet Mask	32-bit number that identifies the network portion of an IP address. To configure subnet mask, please visit System > Network Settings for more details.
5	Default Gateway	A gateway enables PDU to communicate with other devices and typically configured with an IP address and subnet mask that is compatible with the network to which it is connected. To configure gateway, please visit System > Network Settings for more details.

6) IPv6 Information

No.	Item	Description
1	IPv6 Address / Prefix Length	A hexadecimal value that indicates the network portion of the IPv6 address.
2	IPv6 Default Gateway	The default IP address for the IPv6 network gateway
3	Link Local Address / Prefix Length	A link-local address is an IPv6 unicast address that can be automatically configured on any interface that uses the link-local prefix FE80::/10 (1111 1110 10) and the interface identifier in the modified EUI-64 format.

7) Automatic Network Features

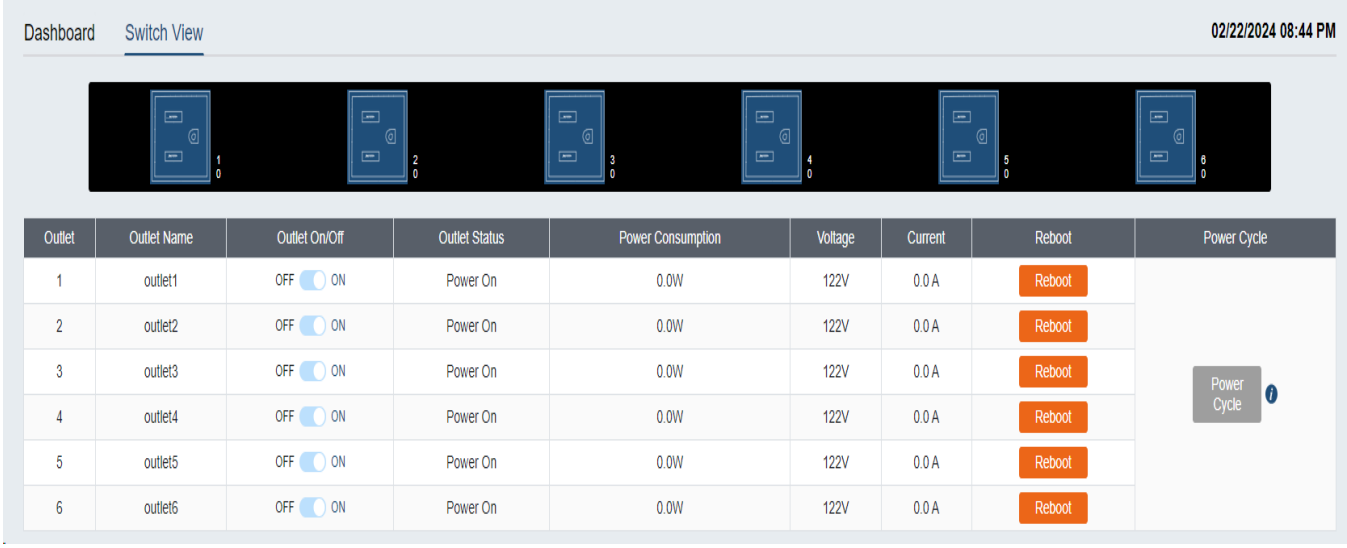
No.	Item	Description
1	IPv4 DHCP Client Mode	After an interface is enabled/disabled with the DHCPv4 client function, the interface can/cannot obtain network parameters including the IPv4 address from the DHCP server
2	IPv6 DHCP Client Mode	After an interface is enabled/disabled with the DHCPv6 client function, the interface can/cannot obtain network parameters including the IPv6 address from the DHCP server

8. Power Consumption

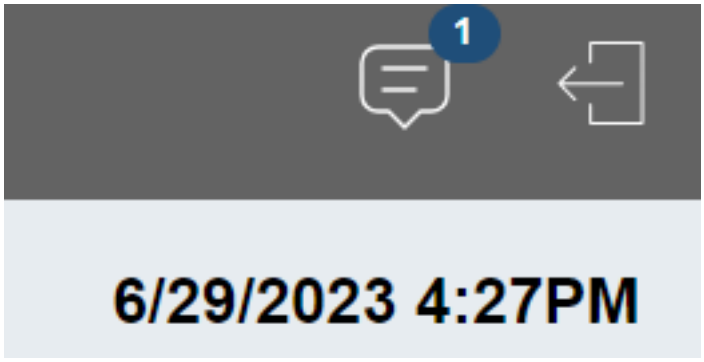
No.	Item	Description
1	Total	The maximum electrical power in watts (W) that can be distributed to the devices connected to the PDU.
2	Used	Electrical power in watts (W) that has been distributed to the devices connected to the PDU.
3	Available	The remaining electrical power in watts (W) that can be distributed to the devices connected to the PDU.

Switch View Tab

The Switch View tab provides a comprehensive display of the individual ports' names and power consumption.



No.	Item	Description
1	Outlet	Outlet column displays the numbered outlets starting from the left side of the rear panel when facing it.
2	Outlet Name	Outlet Name column displays the name assigned to each outlet which is fully customizable by the user. To modify the name of an outlet, please visit OUTLET > Settings section for more details.
3	Outlet On/ Off	The toggle function in this column allows users to enable or disable each outlet by clicking the switch icon. When the switch is blue, the outlet is turned on, and when it's gray, the outlet is turned off.
4	Outlet Status	The status of each outlet.
5	Power Consumption	The power consumption column displays the power consumption for each port.
6	Voltage	The power consumption column displays the voltage for each port.
7	Current	Current The Current column displays the current for each port.
8	Reboot	The reboot function enables users to restart individual outlets by clicking on the orange button. During the reboot process, the settings defined in OUTLET > Settings section will be followed. If the reboot function is disabled, the button will appear in gray.
9	Power Cycle	The Power Cycle button enables users to initiate a power cycle routine upon clicking. To setup Power Cycle function, please visit OUTLET > Settings section for more details.

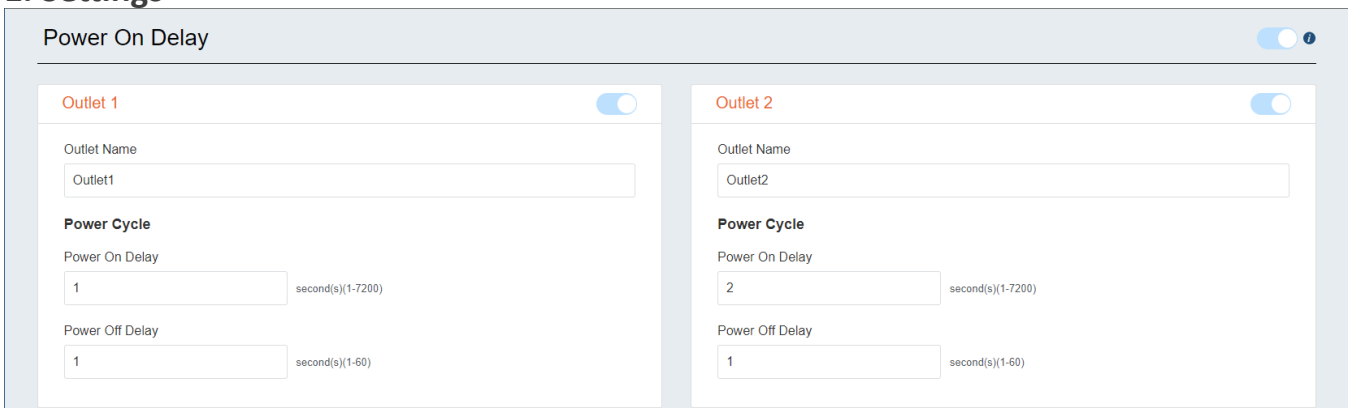


Through the messages tab, users can view messages. After users press confirm, the messages will no longer exist. By pressing on the top right, users will be directed to the "System Log" section. Through the log out tab, users can log out from the system. The exact date/time will be displayed based on the time zone users select. Please visit System > System Settings > Time Zone for more details.

2) OUTLET:

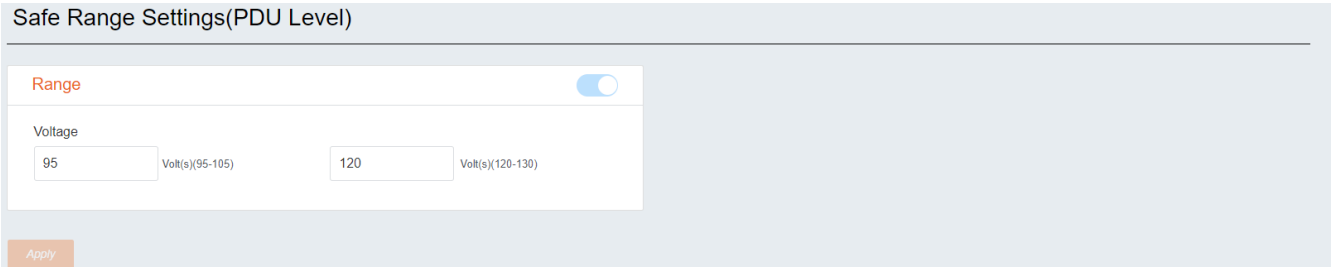
The OUTLET tab comprises three sections: Settings, Schedule, and Auto Reboot. Each providing unique functionalities and controls over the devices' power outlets.

1. Settings



Within the "Power On Delay" section, users are able to define each outlet's name by inputting customized text in the designated text box. The on/off switch button on each top right facilitates toggling the outlets' power cycle, as per the user's preference. Additionally, users can define the power on/off delay for each outlet, expressed as a delay measured in seconds, via the Power On Delay and Power Off Delay columns. When powering on the connect

No.	Item	Description
1	Outlet	Outlet column displays the numbered outlets starting from the left side of the rear panel when facing it.
2	Outlet Name	Outlet Name column displays the name assigned to each outlet which is fully customizable by the user.
3	On/Off	The toggle function on the top right allows users to enable or disable power cycle functionality in each outlet by clicking the switch icon. When the switch is blue, the power cycle is enabled, and when it's gray, the function is disabled.
4	Power On Delay	The Power On Delay setting specifies the duration for which the PDU will wait before turning on power to the outlet. Note: The maximum is 7200 second delay; minimum is 1 second delay.
5	Power Off Delay	The Power Off Delay setting specifies the duration of which the PDU will wait before turning off power to the outlet. Note: The maximum is 60 second delay; minimum is 1 second delay.
6	Toggle Switch Icon	The top right switch button allows user to enable/disable power cycle functionality of the PDU.



In the "Safe Range Settings (PDU Level)" section, users can define the voltage safety range (minimum voltage setting is between 95 V to 105 V & maximum voltage setting is between 120 V to 130 V), which acts as a safeguard against abnormal voltage fluctuations or drops. In the event of such an occurrence, the PDU will automatically disable the outlets, provided that the "Disable Outlets" function is activated.

Upon finalizing the power cycle and safety range settings, please click Apply button on the top right corner to save all the changes.

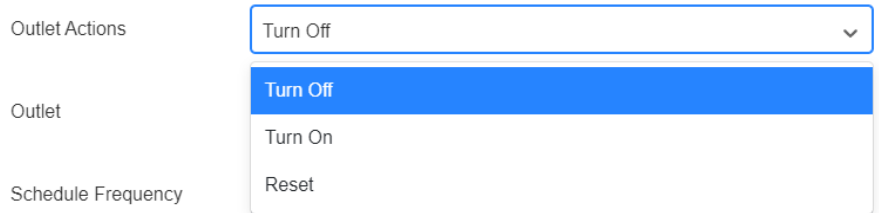
No.	Item	Description
1	Range	Left text field is minimum voltage reading (95 to 105 volts) and right text field is maximum voltage reading (120 to 130 volts) for Safe Range Settings. The unit is in volts.
2	Disable Outlets	This toggle function allows user to enable or disable Safe Range Settings of the system.

2. Schedule

The PDU outlets can also be controlled via a schedule, offering users a convenient and efficient means of managing power consumption and usage. To add a schedule, please click 

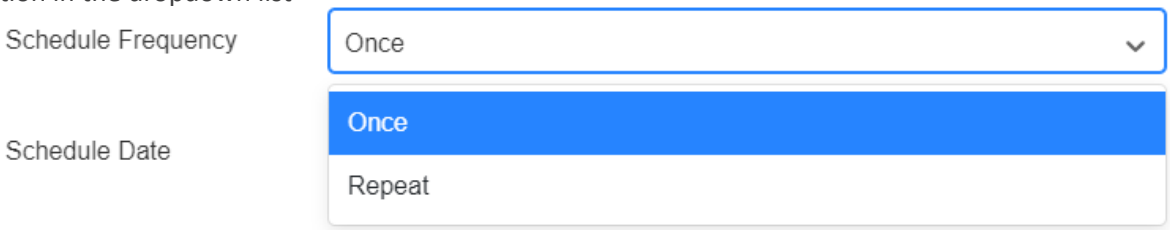
1) Input the designated name for the schedule

2) Choose outlet actions from the available options: turn off / turn on / reset



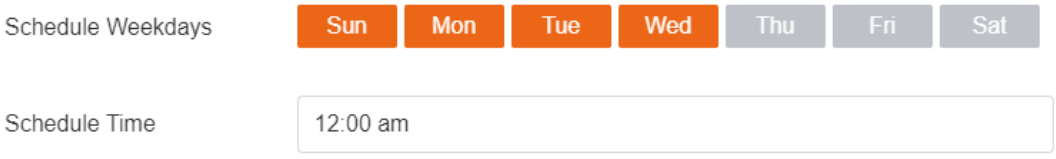
3) Choose the specific outlets on which to perform the selected action

4) The outlet actions can be configured for either one-time or recurring events as determined by the user's selection in the dropdown list



A. If the user selects "Once", they are required to specify the date and time for executing the schedule.

B. If the user selects "Repeat", they should specify the day(s) of the week and time for executing the schedule



5) When all the details have been filled, save the changes by clicking 

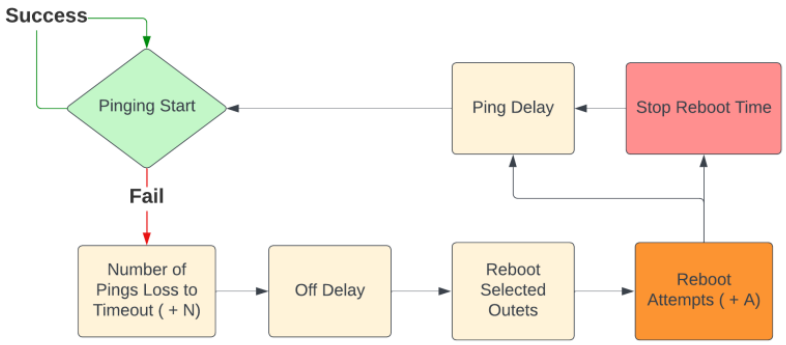
Users are able to access a comprehensive list of all schedules within this tab and make any necessary modifications. Furthermore, the switch button can be used to enable or disable the schedule as needed.

Caution If a conflicting schedule is set by the user, the device will prioritize the latest settings and override any previously conflicting ones.

No.	Item	Description
1	Schedule Name	Schedule Name column displays the name assigned to a schedule which is fully customizable by the user.
2	Outlet Actions	There are three options for outlet actions: 1.Turn Off: Power down selected outlet port(s) on PDU 2.Turn On: Power up selected outlet port(s) on PDU 3.Reset: Restart selected outlet port(s) on PDU
3	Outlet	This section shows the list of available outlets that users can select to perform outlet actions. When an outlet is selected, it will be highlighted in orange while outlets that have not been selected will appear in gray.
4	Schedule Frequency	There are two options for frequency set: 1.Once: The PDU schedule settings will only be process once. 2.Repeat: The PDU schedule settings will process repeatedly based on user's selection.
5	Schedule Date	Formatted in YYYY-MM-DD / Specific date that the PDU will perform outlet actions.
6	Schedule Time	Formatted in HH:MM a.m. or p.m. / Specific time that the PDU will perform outlet actions.
7	Schedule Weekdays	Days of week which users can schedule outlet actions. Selected weekdays will be highlighted in orange while unselected days will be displayed in gray.

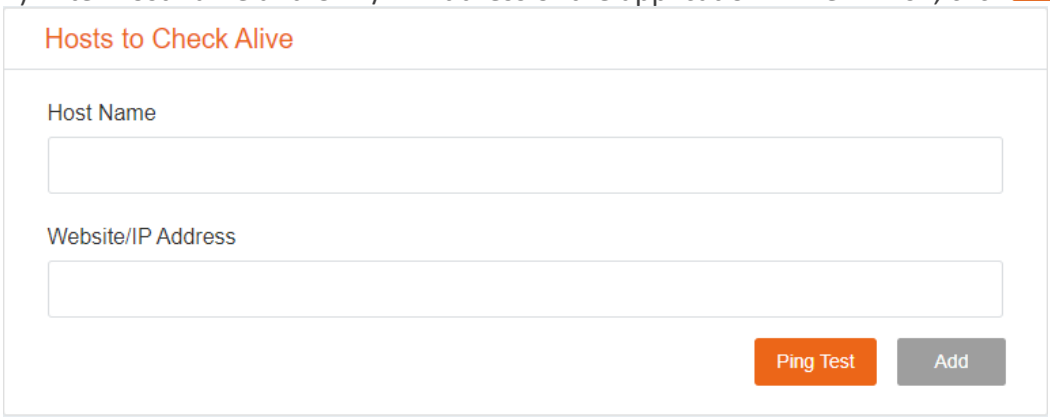
3. Auto Reboot

The auto-reboot function represents one of the unique features available on the SPDU-0615C/SPDU-1415C, enabling the PDU to establish communication with network devices via web URL or IP address. This feature is particularly advantageous in data centers where continuous power supply is essential for the smooth operation of servers and other devices. The auto-reboot function is designed to immediately retore power supply and minimize downtime in case of a power outage or malfunction. The process for implementing an auto-reboot is illustrated below:



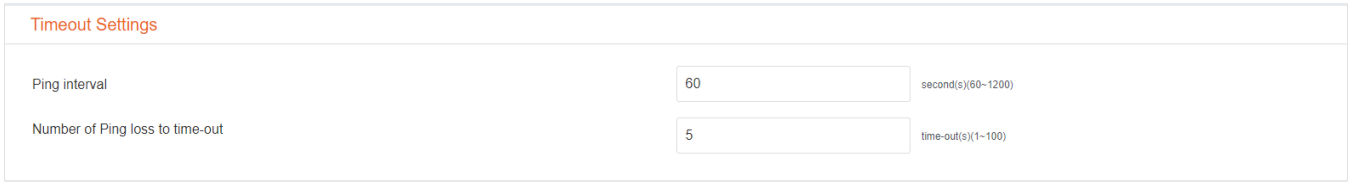
Upon sending a ping request to a specific destination IP address, the PDU will wait for the device to respond. If the device fails to respond, the ping loss counter will start incrementing until it reaches its maximum limit of signal loss (+N). When reaching this threshold, the PDU will initiate a shutdown and reboot of the selected outlets, with each reboot attempt incrementing the counter (+A). Following the reboot, the PDU will wait for a specified period of time for the IP devices to settle (Ping Delay) before resuming the pinging operation. After a successful reboot, the device's network connation may be restored simultaneously. This can be particularly useful in situations where a loss of network connectivity is the reason for device's malfunction and the auto-reboot function is used to restore normal operation. However, if the PDU's reboot attempts reach their maximum limit, the outlets will remain off for an extended period of time while sending out an alarm message to the user. The user can then investigate the status of the IP devices and take necessary repair actions. After outlets have been turned off for certain period of time, the subsequent cycle of auto-reboot action will begin, and all the counter attempts will be reset. To operate Auto Rebooting functionality, please input the following:

1) Enter host name and URL / IP Address of the application. When finish, click Add

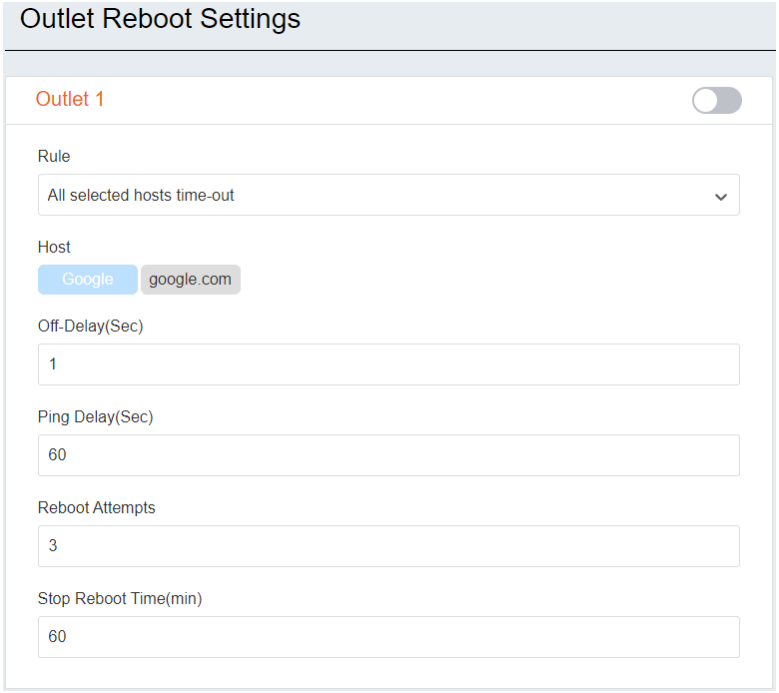


Note: The Host Name should be at least 3 halfwidth / 1 fullwidth characters. The Ping Test button serves to check the responsiveness of the IP devices. In case of a failed connection, an error message "Ping IP/Site is Failed" will pop out.

2) In the "Timeout Settings" section, users can specify the duration of the ping interval and the maximum allowable number of ping losses during the pinging process. The allowable range for the ping interval is between 60 and 1200 seconds, while the allowable range for the number of ping losses is between 1 and 100 times.



3) Finally, for "Outlet Reboot Settings," users can define the rules for each outlet, including which host IP/URL they wish to connect to, and enter the PDU action settings. After defining the rules, click save button to save all the changes.



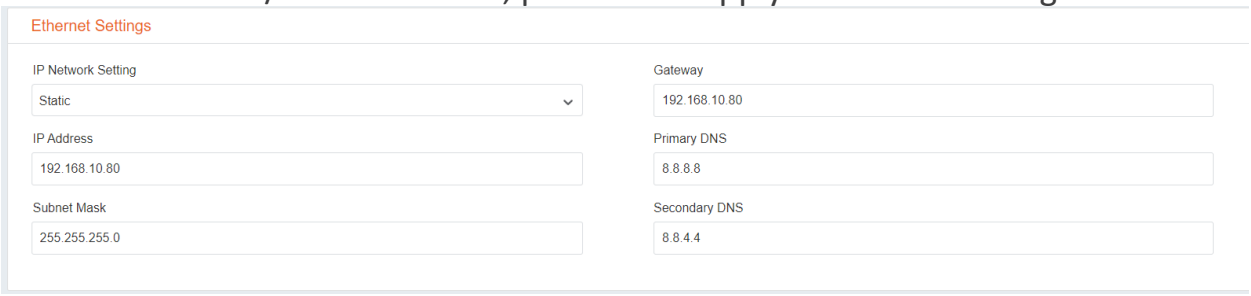
No.	Item	Description
1	Outlet Name	Each name of outlet port that the user has defined on the Outlet > Settings page will be displayed in this section.
2	Rule	There are two sets of rules available for selection: 1.All selected hosts time-out: if all selected hosts highlighted in orange encounter ping loss, the auto reboot operation will start. 2.Any selected hosts time-out: if any selected hosts highlighted in orange encounter ping loss, the auto reboot operation will start.
3	Host	Comprehensive list of all host names defined by the user.
4	Off-Delay (Sec)	The Off-Delay setting specifies the duration of which the PDU will wait before turning off power to the outlet. Note: The maximum is 9999 seconds; minimum is 1 seconds.
5	Ping Delay (Sec)	The Ping Delay setting specifies the duration of which the PDU will wait before sending out another ping signal to IP devices. Note: The maximum is 9999 seconds; minimum is 30 seconds.
6	Reboot Attempts	The Reboot Attempts indicates the maximum allowable outlet reboot operations before turning off for an extended period of time, as defined in the Stop Reboot Time (min). Note: The maximum is 9 times; minimum is 1 time.
7	Stop Reboot Time(min)	The Stop Reboot Time indicates the duration where outlet will remain off.
8	Toggle Switch Icon	The top right switch button allows user to enable/disable auto reboot functionality of the PDU.

3) SYSTEM:

The SYSTEM tab comprises three sections: Network Settings, System Settings, and Firmware.

1. Network Settings

This section enables users to configure the Ethernet settings for SPDU-0615C/SPDU-1415C, including the IP network, IP address, subnet mask, gateway, primary DNS, and secondary DNS. Users have the option to select either Static or Dynamic Host Configuration Protocol (DHCP) for the PDU network TCP/IP. When finish, please click apply to save the changes.



No.	Item	Description
1	IP Address	Unique numerical identifier assigned to the PDU on a network, which allows it to communicate with other devices and be remotely monitored and managed.
2	Subnet Mask	32-bit number that identifies the network portion of an IP address.
3	Gateway	A gateway enables PDU to communicate with other devices and typically configured with an IP address and subnet mask that is compatible with the network to which it is connected.
4	Primary DNS	IP address of the primary Domain Name System (DNS) server used to resolve domain names into IP addresses for the PDU.
5	Secondary DNS	Alternative server that the PDU can use if the primary DNS server is unavailable or not responding.
6	DHCP Client	A network protocol that allows the PDU to automatically obtain an IP address, subnet mask, default gateway, and DNS server information from a DHCP server on the network.Note: The maximum is 9 times; minimum is 1 time.

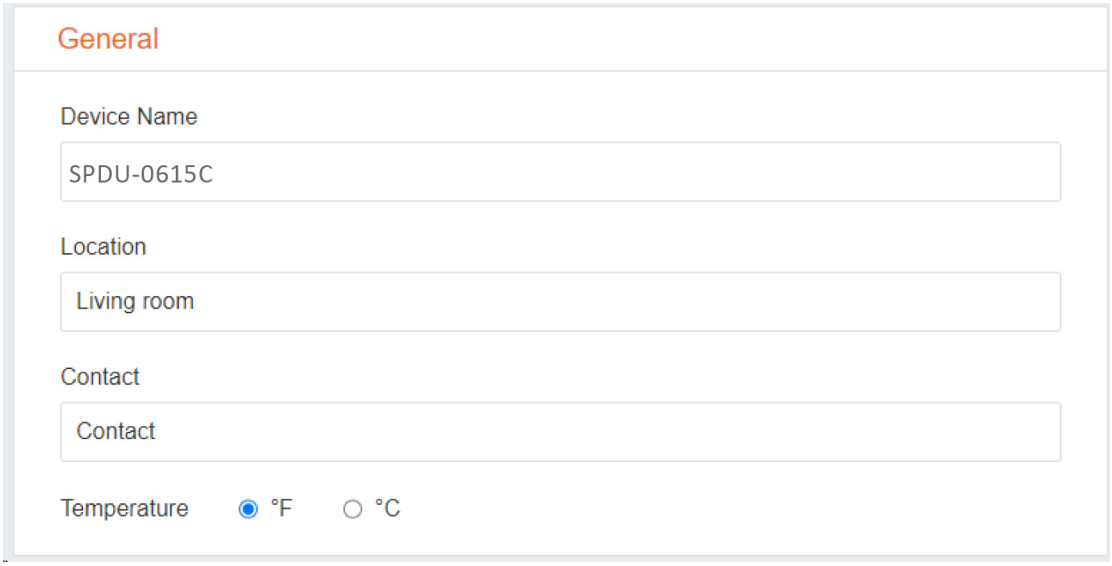
2. System Settings

This section provides users with the ability to modify their account username and password, update the PDU's name and location information, as well as configure the time zone settings.

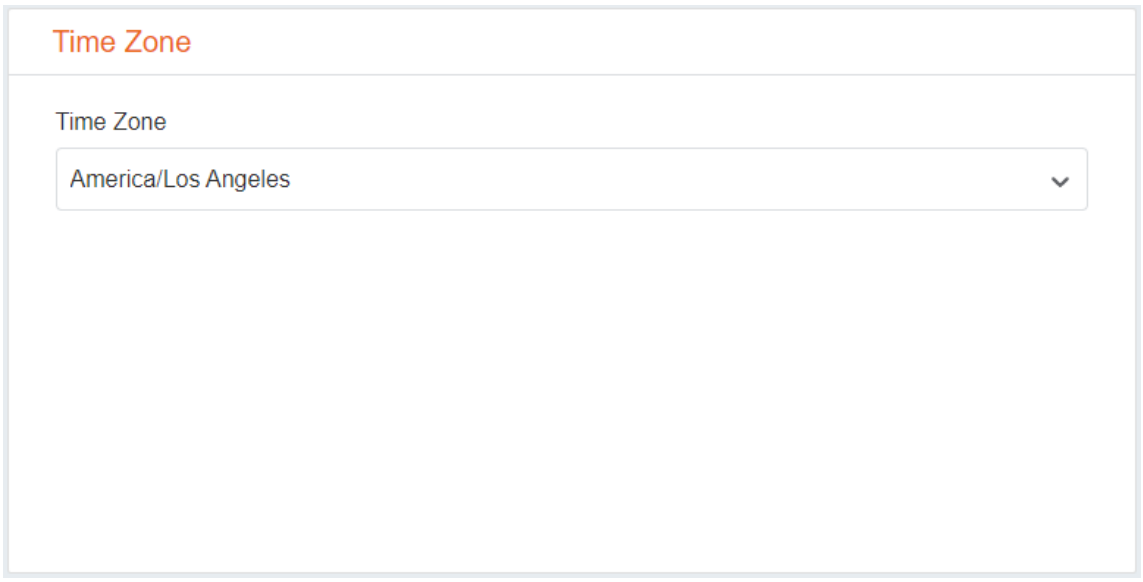
1) Account Settings:

Follow the prompts to enter the new desired username and password. The system will automictically log out of the account. Log back in using the new username and password to verify that the changes have been successfully made. To update the new password, please enter the current password. When finish, please click apply to save the changes.

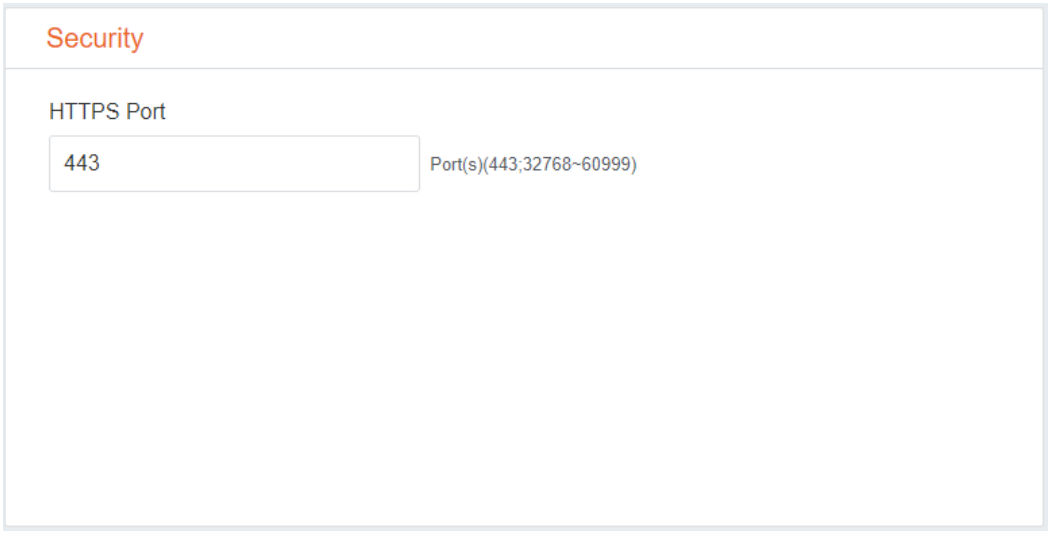
No.	Item	Description
1	Administrator Username	Unique identifier that is assigned to a user for account login / username is "admin" by default Username setting rules: • Can be any alphabet / numerical character • MUST be 3-24 characters long • CANNOT include special characters (@, %, *, etc.)
2	Current Password	Current used of sequence of characters that used to authenticate the identity of a user to gain access to the PDU system / password is "password" by default Password setting rules: • Can be any alphabet / numerical character • MUST be 3-24 characters long •CANNOT include special characters (@, %, *, etc.)
3	New Password	Set the new sequence of characters to login to the system. Please follow the password setting rules.



3) Time Zone:
Please select the time zone you are in to better control over your PDU. To set the time zone of the PDU, select the appropriate city from the drop-down Time Zone list that corresponds to its location.

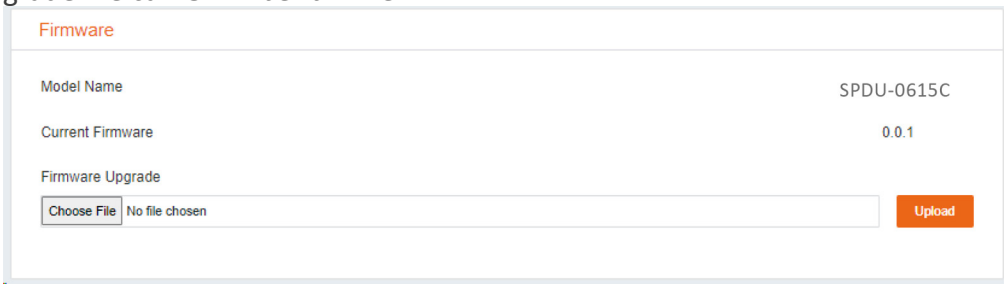


4) Security:
HTTPS works over SSL/TLS with public key encryption to distribute a shared symmetric key for data encryption and authentication. It uses port 443 by default.



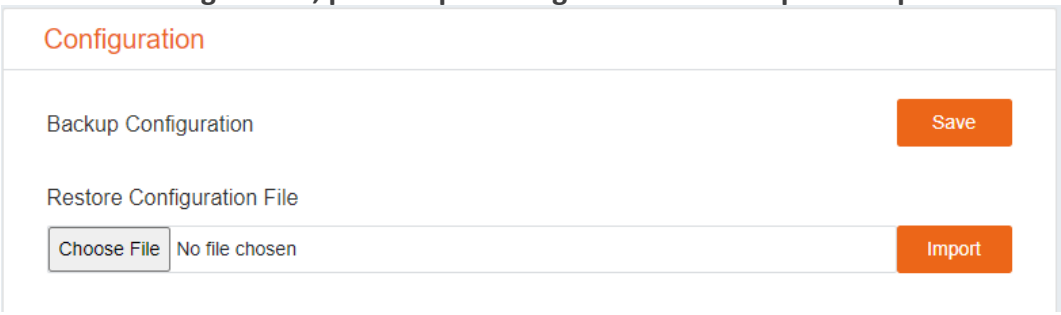
3. Firmware

The page allows users to update, backup, and reset SPDU-0615C/SPDU-1415C.
1. Firmware Current device version will display in "Current Firmware." ***Caution*** Firmware upgrade file can ONLY be .bin file.



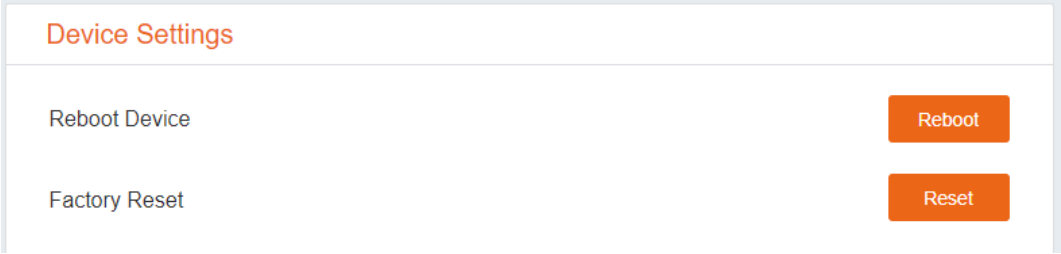
No.	Item	Description
1	Model Name	PDU model name → SPDU-0615C/SPDU-1415C
2	Current Firmware	Current version of software that is installed on the PDU.
3	Firmware Upgrade	This section allows users to upload any firmware upgrade file. ***Caution*** Firmware upgrade file can ONLY be .bin file.

2. Configuration Users can save the current configuration files (.cfg) for backup purposes. To restore the saved configuration, please upload .cfg file and click Import to upload the file.



No.	Item	Description
1	Backup Configuration	"Save Configuration" button allows users to store the current system setting to local device.
2	Restore Configuration File	This section allows users to upload stored backup configuration files. ***Caution*** Firmware upgrade file can ONLY be .cfg file.

3. Device Settings This section allows users to reboot or reset SPDU-0615C/SPDU-1415C. For hardware factory reset method, please refer to PRODUCT FEATURES > E. Reset Button for more information.

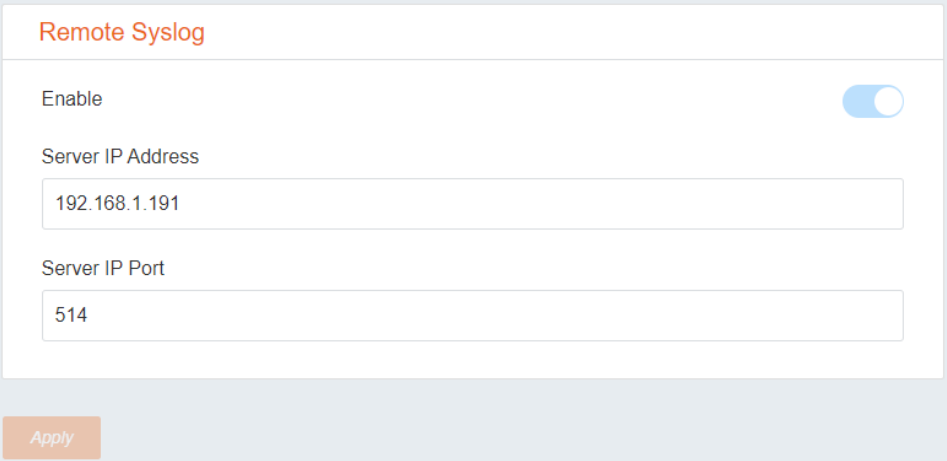


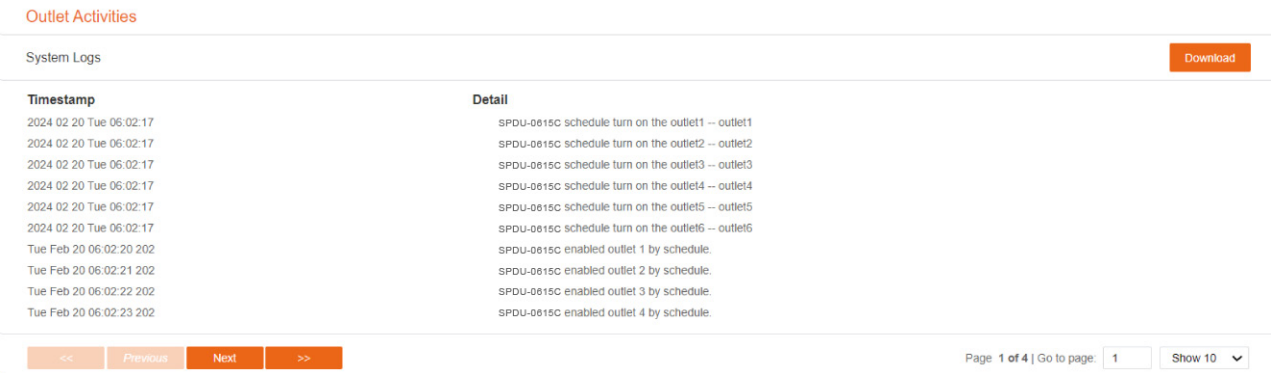
No.	Item	Description
1	Reboot Device	The Reboot button enables the user to restart the PDU
2	Factory Reset	The Reset button enables the user to restore to factory defaults

4) LOG:

This tab comprises two sections: System Log and Email Alert.

1. System Log Users can view the outlet activity information via the browser and connect to personal server to store the system logs by entering the IP address and port number. The SPDU-0615C/SPDU-1415C keeps a record of transactions that take place on installation and stores up to 100 events at one time. When finish, please click Apply to save the changes.





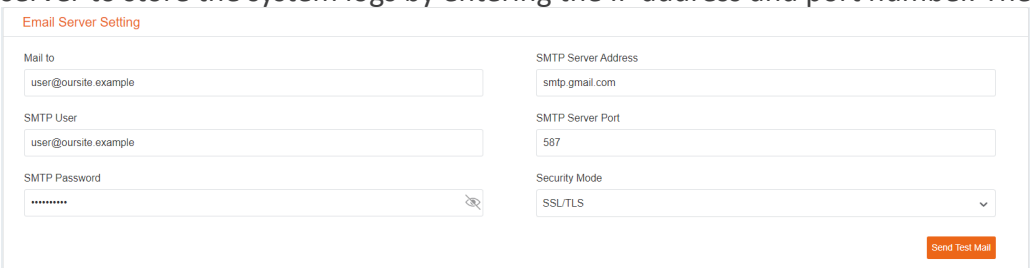
The website can show up to 50 lines of log activities. For more events list, please click Next.The log file data can also be exported as .log to local device by simply clicking Download

No.	Item	Description
1	Enable	The toggle function allows users to enable or disable data transferring to external server by clicking the switch icon. When the switch is blue, the transferring is enabled, and when it's gray, the function is disabled.
2	Server IP Address	The IP address field pertains to the external server's IP address where users intend to send log data to.
3	Server IP Address	Specific communication endpoint where the PDU will send data to an external server.
4	System Logs	Allows user to download system log by clicking "Download Detailed Logs" button. Downloaded file will be logged for all historical data.

2. Email Alert

1) Email Server Setting Whenever there are any abnormal events that occur, the smart PDU will not only display an alert message on the website, but also send out email notifications to the users. The email notification settings are as follows: Enter the following information:This tab comprises two sections: System Log and Email Alert.

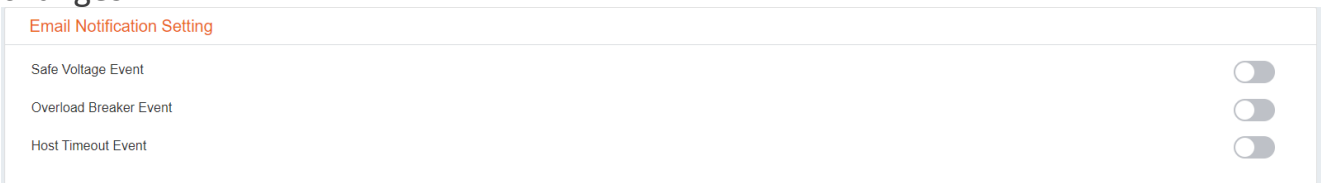
1. System Log Users can view the outlet activity information via the browser and connect to personal server to store the system logs by entering the IP address and port number. The EPD-1506VR-US/EPD-



No.	Item	Description
1	Mail to	Email address that users want to receive the alert mail
2	SMTP User	Email address that Simple Mail Transfer Protocol (SMTP) used for sending email messages
3	SMTP Password	Password for your SMTP in encrypted format
4	SMTP Server Address	Enter the server address of SMTP
5	SMTP Server Port	Enter the server port number / default port number is 587
6	Security Mode	Users can select the security mode of sending email: None, SSL/TLS. And STARTTLS depending on their preference.
7	Send Test Mail	Example alert mail will be sent to the email address specify in Mail to column. Note: The contents of alert emails are not customizable.

2) Email Notification Setting

There are three available options to trigger alert message: Safe Voltage Event, Overload Breaker Event, and Host Timeout Event. When finish, please click Apply to save the changes.



No.	Item	Description
1	Safe Voltage Event	When the toggle button is enabled (turn green) and an outlet's voltage exceed the defined safe range (OUTLET > Settings), an alarm email will be triggered. When switch button is off (turn red), alarm email will not be sent.
2	Overload Breaker Event	When the toggle button is enabled (turn green) and a circuit overload is detected by the PDU, an alarm email will be triggered. When switch button is off (turn red), alarm email will not be sent.
3	Host Timeout Event	When the toggle button is enabled (turn green) and IP devices fail to respond during the ping process, an alarm email will be triggered (OUTLET > Auto Reboot). When switch button is off (turn red), alarm email will not be sent.

FCC Warning

WARNING!! Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 separate 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.
Notice: (1) An unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception.
It is essential that only the supplied power cord by used. (2) Use only shielded cables to connect I/O devices to this equipment. Note: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Warning

Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts. "CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions."

CAUTION

- Lithium Battery Caution: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type. Dispose batteries according to manufac- turer's instructions. - Disposal of a BATTERY into fire or a hot oven, or mechanically crushing or cutting of a BATTERY, that can result in an EXPLOSION - Leaving a BATTERY in an extremely high temperature surrounding environment that can result in an EXPLOSION or the leakage of flammable liquid or gas - A BATTERY subjected to extremely low air pressure that may result in an EXPLOSION or the leakage of flammable liquid or gas. WARNING: There is danger of explosion if the battery is mishandled or incorrectly replaced. Replace only with the same type of battery. Do not disassemble it or attempt to recharge it outside the system. Do not crush, puncture, dispose of in fire, short the external contacts, or expose to water or the liquids. Dispose of the battery in accordance with local regulations and instructions from your service provider.
The Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulation.

Obtaining Service

If the PDU requires Service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, call Xtreme Power Conversion Corp Technical Support at 800.582.4524. Technical support inquiries can also be made at support@xpcc.com. Please have the following information available BEFORE calling the Technical Support Department:
   - Your name and address.
   - The serial number of the unit.
   - Where and when the unit was purchased.
   - All of the model information about your PDU.
   - Any information on the failure, including LED's that may or may not be illuminated.
   - A description of the protected equipment, including model numbers if possible.
   - A technician will ask you for the above information and, if possible, help solve your problem over the phone. In the event that the unit requires factory service, the technician will issue you a Return Material Authorization number (RMA).

If you are returning the PDU to Xtreme Power for service, please follow these procedures:

1. Pack the PDU in its original packaging. If the original packaging is no longer available, ask the Technical Support Technician about obtaining a replacement set of packaging material. It is important to pack the PDU properly in order to avoid damage in transit. Never use Styrofoam beads for a packing material.
2. Include a letter with your name, address, daytime phone number, RMA number, a copy of your original sales receipt, and a brief description of the problem.
3. Mark the RMA number on the outside of all packages. Xtreme Power cannot accept any package without the RMA number marked on the outside of the boxes.
4. Return the PDU by insured, prepaid carrier to the address provided by the Technician.
5. Refer to the Warranty statements in this manual for additional details on what is covered.

Xtreme Power Conversion Limited Warranty

Xtreme Power Conversion (XPC) Corporation warrants Xtreme Power Conversion equipment, when properly applied and operated within specified conditions, against faulty materials or workmanship for a period of **five years (USA & Canada) or three years (outside USA & Canada) for SPDU products** from the date of purchase. XPC Corporation warrants **internal batteries for a period of five years** from the date of purchase. For equipment sites within the United States and Canada, this warranty covers repair or replacement, at the sole discretion of XPC Corporation. The customer is responsible for the costs of shipping the defective product to XPC Corporation. XPC Corporation will pay for ground shipment of the repaired or replacement product. For equiptment outside the US & Canada, the warranty does not include shipping to and from XPC service depot. This warranty applies only to the original purchaser.

If equipment provided by XPC Corporation is found to be **Dead-on-Arrival (DOA)**, XPC Corporation will be responsible for the costs of shipping product to and returning equipment from the customer in a timely manner as agreed to with the customer, once the customer has requested and received a **Return Material Authorization (RMA)** number. DOA equipment is defined as equipment that does not properly function according to user documentation when initially received and connected in conjunction with proper procedures as shown in the user documentation or via support provided by XPC Corporation personnel or authorized agents.

This warranty shall be void if (a) the equipment is repaired or modified by anyone other than XPC Corporation or a XPC Corporation approved third party; (b) the equipment is damaged by the customer, is improperly used or stored, is subjected to an adverse operating environment, or is operated outside the limits of its electrical specifications; or (c) the equipment has been used or stored in a manner contrary to the equipment's operating manual, intended use or other written instructions. Any technical advice furnished by XPC Corporation or a XPC Corporation authorized representative before or after delivery with regard to the use or application of Xtreme Power Conversion equipment is furnished on the basis that it represents XPC Corporations best judgment under the situation and circumstances, but it is used at the recipient's sole risk.

EXCEPT AS STATED ABOVE, XPC Corporation DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

EXCEPT AS STATED ABOVE, IN NO EVENT WILL XPC Corporation BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF Xtreme Power Conversion EQUIPMENT, including but not limited to, any costs, lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, cost of substitutes, or claims by third parties. Purchaser's sole and exclusive remedy for breach of any warranty, expressed or implied, concerning Xtreme Power Conversion equipment, and the only obligation of XPC Corporation under this warranty, shall be the repair or replacement of defective equipment, components, or parts; or, at XPC Corporations sole discretion, refund of the purchase price or substitution of an equivalent replacement product.