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1. PRODUCT OVERVIEW

1.1 Safety

Precautions for safe use

In order to use the equipment correctly and safely, please read the safety precautions carefully before using the equipment, and strictly follow the precautions.

- Handle with care during transit or installation.
- Ensure that the equipment is reliably grounded before use.
- The rated voltage used to connect AC distribution system must not exceed the allowable range of PDU product identifier.
- Maximum load must not exceed PDU rating.

Maintenance requirements

- Changes to the network module and output modules must be operated by professional and technical personnel.
- Because the PDU output module base is charged, ensure proper insulation and protection during the maintenance of the equipment.
- Before disassembling the output module, please remove all outlet loads and prohibit replacing the output module with load.
- When installing the output modules, please pay careful attention to the direction of the module installation. Do not reverse installation, to avoid damage to the product.

1.2 Introduction

The ArcTiv iPDU series includes a modular outlet design allowing the user to customize the outlet sections while maintaining a common platform design. The outlets are offered in standard options and can be modified or replaced in the field. The 0U PDU's are also offered in low-profile configurations via high-density outlet designs and hydraulic magnetic circuit breakers.

1.3 Product Scope

The product line is offered in 3 standard ranges:

- Metered Input
- Metered Outlet
- Managed (Switched and Metered Outlet)

The standard features for each range include:

Feature	Metered Input	Metered Outlet	Managed
Monitoring of each phase (Energy, Power, PF, Voltage, Current)	•	•	•
Steel Chassis	•	•	•
Hot-swap Network Module	•	•	•
Hot-swap Outlet Module	•	•	•
Environmental Monitoring	•	•	•
Phase-Level Threshold Settings (Voltage, Current)	•	•	•
Outlet-Level Monitoring (Energy, Power, Current)		•	•
Outlet-Level Switching (Synchronous Delay)			•

2. FUNCTIONS & START-UP

2.1 Functional Overview

Monitoring function

Through the local LCD screen, the user can view the following:

- Current, voltage, energy consumption & power of each phase
- Baud rate, serial communication address, daisy chain address, device series, IP address
- Temperature & humidity status
- Current & power consumption of each individual outlet

Outlet switching function

Switching On/Off each individual outlet and circuit breaker, set up the power on/off delay, return to zero for power consumption at phase or outlet level.

Retain outlet status

Retain the former state of each outlet after restart.

User defined alarm

Triggered when thresholds of total current, individual outlet current or temperature & humidity are exceeded

System default alarm

When the total rating current, individual rating current are exceeded or temperature & humidity thresholds are exceeded.

Various alarm methods

Buzzer sounds, Alarm indicator flashes, value displayed in red from Web interface, flashing red LCD screen, alarm logs, E-mail notification and SNMP trap

User management

User permission configuration (User can be set as administrator or normal user).

Access methods

Web Interface, Telnet command line, Modbus, SNMP (v1, v2c, v3), Serial console

- LCD screen energy-saving mode and mute alarm buzzer
- Multi-user operation system & browser and remote software update.

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2.2 Product Pictures and Functional Diagram



- 6 -ARCTIV iPDU User Manual M-0010--Rev 2

- 1. Input power cord
- 2. Hydraulic circuit breaker
- 3. Network module
- 4. LCD screen
- 5. Operation indicator (RUN, kWh, ALM)
- 6. UP: Scroll up to the previous page
- 7. DOWN: Scroll down to the next page
- 8. CONTROL: Confirm and flip button
- 9. RESET: Reset button
- 10. NET: 10/100M Ethernet port
- 11. SER: Serial port MODBUS Supported)
- 12. IN: Daisy Chain port Connect to the OUT port of previous PDU
- 13. OUT: Daisy Chain port; Connect to the IN port of next PDU
- 14. **T/H1** temperature and humidity sensor port 1. **T/H2:T** temperature and humidity sensor port 2.
- 15. Alarm: Audible and visual alarm port
- 16. Outlet LED indicator
- 17. Outlet sockets
- 18. Outlet modules

3. HARRDWARE INSTRUCTIONS

3.1 Network Module

Item	Function	Instruction
RUN	RUN Indicator	Status: Flashing every second
kWh	kWh Indicator	Status: Flashing frequency depends on the connected load
ALM	Alarm Indicator	Status: Flashing when threshold is exceeded
NET	Ethernet Port	LAN / WAN communication port
SER	Serial Port	RS-485 Serial communication port
IN	Daisy-Chain Port	Connect to the OUT port of previous iPDU
OUT	Daisy-Chain Port	Connect to the IN port of the next iPDU
CONTROL	Control Button	Press to view the iPDU status & configuration. Restore to factory settings: Press and hold the control button, then press RESET button to restore to factory settings.
UP	Page Up	Scroll up to the previous page
DOWN	Page Down	Scroll down to the new page
RESET	RESET Button	Restart system
LCD Screen	View Status	Display the power data and alarm status
T/H	Temp / Humid Sensor Port	Connect to temperature & humidity sensors

3.2 System Initialization

When powering on the PDU, the boot animation starts, then the buzzer sounds and the RUN indicator flashes. It starts in the normal working mode, after the unit has initialized and the LCD has started displaying the power data.

Press the UP/DOWN button to view the PDU information including the input voltage / current / power consumption of each phase, temperature/humidity status, baud rate, Modbus communication code, Daisy chain code, IP address and device series.

Press the CONTROL button to view the current/power/power consumption of individual outlet.

Press and hold the CONTROL button for 4 seconds to back to the input voltage / current / power consumption of each phase.



3.3 Hardware Settings

Restore to factory settings

Press and hold the CONTROL button to power on the PDU at the same time (Or press and hold the CONTROL button and press RESET button at the same time) until the RUN indicator is flashing.

Buzzer mute button

Press and hold the CONTROL button for 4 seconds, then press the UP button within 1 second to enable or disable the alarm buzzer.

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Address code settings

Turn to the Baud rate and Address code page by press the UP or DOWN button, then press and hold the CONTROL button for 4 seconds. When an "S" is displayed in the upper right corner of the LCD screen, press the DOWN button to select the digit of the Modbus address and press UP button to set digit value from 0 to 9. Press CONTROL button to save the settings and PDU will restart.

3.4 Daisy Chain

Ethernet Daisy Chain

Supports daisy chain up to 4 PDUs (1 master and 3 slaves) so the user can manage multiple PDUs from one IP address through the web interface. Daisy chain schematic is as follows:



Ethernet Daisy Chain settings

- 1) Log in each PDU, and configure the Work mode (Master unit or Slave unit) on Device Manage page.
- Connect the NET port from the Master Unit to the WAN/LAN. Daisy chain the other PDU's by connecting the OUT port to the IN port of the next PDU. Connect all 3 Slave unit by the same method (see Figure above).
- Access the Master unit through the Web interface and check the status of all the Slave units. If all are readable, daisy chain is successful WAN/LAN.

Note: Only the same product series can support the Daisy chain connection. Single phase and Three phase series cannot Daisy chain together.

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Star Connection

Supports unlimited Star connection up to unlimited PDU through a HUB.



Serial Connection settings

The Modbus-RTU protocol is used for the Star connection. The MODBUS Serial Server connects to the Bus arbiter, the RS485 port from the Bus arbiter connects to the SER port from each PDU. Serial connection can support up to 32 PDUs together. See figure below.



- Log on to Web interface of each PDU to configure the serial communication code from the Modbus address code on Device Manage page
- 2. The Master unit collects the data from the SER port through the RS 485 serial communication cable.

- 11 -ARCTIV iPDU User Manual M-0010--Rev 2 The Modbus-RTU protocol is used here for the Star connection, The MODBUS Serial Server connect to the IN port from the first PDU. Daisy chain cable connect the first PDU OUT port to the IN port of the second PDU. Connect all 32 Slave unit by the same way (see Figure above) Serial connection can support up to 32 PDUs together. See figure as below.



- Log on to Web interface of each PDU to configure the serial communication code from the Modbus address code on Device Manage page
- 2) The Slave1 unit collects the data from the IN port through the RS 485 serial communication cable.

4. SOFTWARE INTRODUCTION

4.1 Software Overview

The PDU is equipped with and embedded software system which provides network services including WEB server, SNMP, Telnet, SMTP/SMTPS, MODBUS, NTP and etc. The User can access the PDU through the Web Interface or other methods, simultaneously.

4.2 Access Methods

Access through the Web Interface through the following:

- Supports browsers (IE, Google chrome, Firefox, etc.)
- SNMP V1, V2c, V3
- Command line interface (telnet)
- Serial communication MODBUS RTU

Web Interface

Open a browser and enter the default IP address (default IP address: 192.168.1.163), the login window will pop up (see below).

Usemame: admin
Password:
with Logn within a

Fill in the correct user name and password (Factory default login name is admin, password is admin) to login the main interface. The main interface is designed with three major screen sections shown in the following screenshot.

iPDU - Main Interface

ARC IPDU		Devi	ce State Settings	Device	Network	User	Logs System		ტ 中文 Englis
Device Information		Number	Name	Voltage (V)	Current (A)	Power	r Factor Active Power (kW)	Energy (kWh)	Circuit Breaker
PDU: Master •		1	L1	219.7	0.00	0.	.00 0.000	0.0	Closed
		2	L2	219.7	0.00	0.	.00 0.000	3.0	Closed
Version : 3P/3C/24 2.10.	10.10	3	L3	219.8	0.00	0.	.00 0.000	0.8	Closed
Work Mode : Master		Number	Name	Current	(A)	Power Eactor	Active Downs (MM)	Energy (MMb)	ONIOFE Status
Input : Three Phase			Output1	Current	(~)	0.00	0.000	Chargy (kmi)	ON
Level : Outlet Monitori	na & Switching	2	Output?	0.00		0.00	0.000	0.0	ON
Level : Codet monitori	ig a ownering	3	Output3	0.00		0.00	0.000	0.0	ON
		4	Output4	0.00		0.00	0.000	0.0	ON
Environment Status		5	Output5	0.00		0.00	0.000	0.0	ON
Temperature 1 NA	°C	6	Output6	0.00		0.00	0.000	0.0	ON
Relative Humidity 1 NA	%	7	Output7	0.00		0.00	0.000	0.0	ON
Temperature 2 NA	°C	8	Output8	0.00		0.00	0.000	0.0	ON
Relative Humidity 2 NA	%	9	Output9	0.00		0.00	0.000	0.0	ON
		10	Output10	0.00		0.00	0.000	0.0	ON
		11	Output11	0.00		0.00	0.000	0.0	ON
		12	Output12	0.00		0.00	0.000	0.0	ON
		13	Output13	0.00		0.00	0.000	0.0	ON
		14	Output14	0.00		0.00	0.000	0.0	ON
		15	Output15	0.00		0.00	0.000	3.0	ON
		16	Output16	0.00		0.00	0.000	0.0	ON
		17	Output17	0.00		0.00	0.000	0.0	ON
		18	Output18	0.00		0.00	0.000	0.6	ON
		19	Output19	0.00		0.00	0.000	0.0	ON
		20	Output20	0.00		0.00	0.000	0.0	ON
		21	Output21	0.00		0.00	0.000	0.0	ON
		23	Output23	0.00		0.00	0.000	0.0	ON
		24	Output24	0.00		0.00	0.000	0.0	ON

- **Device information:** Selection of Master/Slave Unit, Software version, Daisy chain address code, device type and device series
- Navigation tab: Shows function tabs available
- Detail window: Shows PDU information under each function tab

Device Status:

View the monitoring information as below:

- Input monitoring: The input current, voltage, power, energy & power factor of each phase and On/Off status of circuit breaker.
- **Outlet Monitoring:** The current, power consumption and ON/OFF status of each individual outlet.
- Environment monitoring: Temperature/humidity status of 2 sensors.

Device Settings:

Click the Settings tab to configure thresholds of input voltage, input current, individual outlet current, temperature, humidity. Configure values for power On/Off delay of individual outlet, power consumption return to zero and outlet switching.

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Input Threshold Settings:

- The input voltage threshold range: 0 250VAC
- The input current threshold range: (1P: 0 63A), (3P: 0 32A)
- Temperature/Humidity threshold range: (0 40°C, temp), (0 99%, humid)

ARC iPDU		Device State	Device State Settings Device		User Logs	System	り 中文 English	
 Settings 	Number	Name	Real Time Value	Min	Lower Limit	Upper Limit	Max	Save
🦕 Total Threshold	1	L1 Current (A)	0.00	0	0	16	16	Save
Gutput Threshold	2	L2 Current (A)	0.00	0	0	16	16	Save
🖕 Energy Reset	3	L3 Current (A)	0.00	0	0	16	16	Save
Switch ON/OFF								
Switch Group	Number	Name	Real Time V	alue	Min		Max	Save
Port Permissions	1	L1 Voltage (V)	219.7		80		276	Save
	2	L2 Voltage (V)	219.9		80		276	Save
Master •	3	L3 Voltage (V)	219.7		80		276	Save
	4	Temperature 1 (°C)	NA		0		40	Save
	5	Temperature 2 (°C)	NA		0		40	Save
	6	Humidity 1 (%)	NA		0		99	Save
	7	Humidity 2 (%)	NA		0		99	Save
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		(Copyright© Shenzhen Clever Elect	ronic Co.,LTD All n	ghts reserved.			

Individual Outlet Threshold Settings:

- The individual outlet current threshold range: 0-16A
- User defined power On/Off delay for individual outlets: 0-10 seconds

Note: The low load and overload threshold should be within the threshold range.



Power Consumption Return To Zero

User can view the power consumption of individual outlet or each phase. The specified power consumption can be returned to zero by clicking the Reset button. The power consumption value of specified outlet will be reduced from the total power consumption.

ARC IPDU		Device State Settings Device	Network User Logs System	ტ 中文 English
 Settings 	Number	Name	Energy (kWh)	Reset
Lawright Total Threshold	1	L1	0	Reset
Gutput Threshold	2	L2	3	Reset
🖕 Energy Reset	3	L3	0.8	Reset
Switch ON/OFF	Number	Name	Energy (kWh)	Reset
Switch Group	1	Output1	0	Reset
Port Permissions	2	Output2	0	Reset
	3	Output3	0	Reset
Master •	4	Output4	0	Reset
	5	Output5	0	Reset
	6	Output6	0	Reset
	7	Output7	0	Reset
	8	Output8	0	Reset
	9	Output9	0	Reset
	10	Output10	0	Reset
	11	Output11	0	Reset
	12	Output12	0	Reset
	13	Output13	0	Reset
	14	Output14	0	Reset
	15	Output15	3	Reset
	16	Output16	0	Reset
	17	Output17	0	Reset
	18	Output18	0.6	Reset
	19	Output19	0	Reset
	20	Output20	0	Reset
	21	Output21	0.2	Reset
	22	Output22	0	Reset
	23	Output23	0	Reset
	24	Output24	0	Reset
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Outlet Control

- Click the ON/OFF button after the outlet to switch ON/OFF the specified individual outlets.
- Click the ON/OFF button after each phase to switch ON/OFF the outlets from the specified phase.
- Click All ON/All OFF button to switch ON/OFF all outlets at the same time.

ARC iPDU		Device State Settings Device	Network User Logs Syste	em 👌 中文 English
Settings	Number		Name	Switch
🖕 Total Threshold	1	Over	rall Control	ON OFF
La Output Threshold				
🖕 Energy Reset	Number	Nama	Statue	Switch
Switch ON/OFF	1	Output1	ON	ON OFF
Switch Group	2	Output2	ON	ON OFF
Port Permissions	3	Output3	ON	ON OFF
	4	Output4	ON	ON OFF
Master •	5	Output5	ON	ON OFF
	6	Output6	ON	ON OFF
	7	Output7	ON	ON OFF
	8	Output8	ON	ON OFF
	9	Output9	ON	ON OFF
	10	Output10	ON	ON OFF
	11	Output11	ON	ON OFF
	12	Output12	ON	ON OFF
	13	Output13	ON	ON OFF
	14	Output14	ON	ON OFF
	15	Output15	ON	ON OFF
	16	Output16	ON	ON OFF
	17	Output17	ON	ON OFF
	18	Output18	ON	ON OFF
	19	Output19	ON	ON OFF
	20	Output20	ON	ON OFF
	21	Output21	ON	ON OFF
	22	Output22	ON	ON OFF
	23	Output23	ON	ON OFF
	24	Output24	ON	ON OFF
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Switch Group

- Tick off the box from the Outlet Groups listed
- Select Enable from the dropdown list and click Save button
- By clicking the ON or OFF button, you can switch on/off the outlets this outlet group at one time

ARC iPDU		Device State	Settings C	Device Net	work User	Logs	System			
 Settings 	No.	Outlet name	Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8
Total Threshold	1	Output1								
Gutput Threshold	2	Output2								
🖕 Energy Reset	3	Output3	2							
Switch on/off	4	Output4								
Switch Group	5	Output5								
Port Permissions	6	Output6		2						
	7	Output7								
Master •	8	Output8								
	9	Output9			2					
	10	Output10								
	11	Output11								
	12	Output12								
	13	Output13								
	14	Output14				2				
	15	Output15					•			
	16	Output16								
	17	Output17					•			
	18	Output18								
	19	Output19								
	20	Output20								
	21	Output21						•		
	22	Output22								
	23	Output23								
	24	Output24								
	Outlet gro	suping: Enable								Submit
			ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF	ON OFF
			Copyright© Shenzhen	Clever Electronic C	. LTD All rights reser	rved.				

Port Permissions Settings:

Modify the port permissions: In the user name drop down list, select the administrator or normal user account. Next to the corresponding output bit name, click the \checkmark symbol to have the output bit control permission, and the unsigned symbol is no output bit control permission. Depending on the selected user, you can edit the output rights of multiple users and click the "Save" button.

ARC IPDU		Device State	Settings	Dovice Network	User Logs System	🔥 بەيغ English
 Settings 	admin	•				
Law Total Threshold	1	Output1		2	Output2	2
La Output Threshold	3	Output3		4	Output4	2
🖕 Energy Reset	5	Output5		6	Output6	2
Switch on/off	7	Output7		8	Output8	2
🖕 Switch Group	9	Output9		10	Output10	2
L Port Permissions	11	Output11		12	Output12	2
	13	Output13		14	Output14	2
	15	Output15		16	Output16	2
	17	Output17	۲	18	Output18	2
	19	Output19		20	Output20	2
	21	Output21		22	Output22	2
	23	Output23		24	Output24	2
						Save
			Copyright© Shenzhe	n Clever Electronic Co.,LTD All righ	its reserved.	

Device Management

Device Settings: To configure the device name, LCD screen energy saving mode, mute the buzzer alarm, Work mode, Modbus address code and baud rate.

ARC IPDU		Device State	Settings E	Device Network	User	Logs Syste	m	① 中文	English
Device	PDU Settings								
Levice Settings	PDU Name:				MPDU				
	Buzzer Mute:				On	۲			
	Work mode:				Master	۲			
	Modbus Address Code:				Slave1	۲			
	Baud Rate:				9600	۲			
	Save								
		Cop	yngntto snenzhen Clei	ver Electronic Co.,LTD A	a ngnts resérved.				

Network Settings:

HTTP/SSL settings

- Set-up and save the HTTP/SSL port according to the working mode.
- The default port is 80 under normal work mode.
- HTTPS(SSL) Mode Port is 443 by default

Note: These settings will take effect when PDU is restarted

Network settings and modify IP address, for example:

- IP address: 192.168.1.163 (factory default IP)
- Subnet mask: 255.255.255.0
- Gateway: 192.168.1.1
- DNS address: 202.96.128.86 by default

Please enter a correct DNS address in order to send the E-mail

ARC IPDU		Device State	Settings	Device	Network	User	Logs	System	⊕ 中文	English
Network	нттр									
L HTTP	Regular Mode Port:				80					
SNMP	SSL Mode Port: Work Mode:				443 HTTP	•				
	Save									
	Network Settings				192,168,1,163					
	Subnet Mask:				255.255.255.0					
	Gateway:				192.168.1.1					
	Save									
		Cop	yright© Shenzhen	Clever Electro	nic Co.,LTD All right	s reserved.				

DHCP settings:

The default state of DHCP setting is Off. User can select On from the DHCP drop-down list and click Save to enable it. After restarting the software, the device will receive the IP automatically. IP can be viewed from the LCD screen.



Note: When DHCP is On, the device automatically obtains the router to assign an IP address and will not allow you to manually modify the network settings.

SNMP Settings

• SNMP V1/V2c settings:

User can decide to Enable or Disable the SNMP access from the Web Interface. Enable SNMP V1 and V2 requires configuration of read community and write community. The default "Read community" and "Write community" is public and private respectively.

Trap address: can set 2 trap addresses. Fill in the trap address of SNMP management platform. Trap information will be sent directly to the addresses.

• SNMP v3 Settings:

Select "On" and fill in account, password, private key.

Note: After saving the SNMP setting, the software must be restarted.

ARC IPDU	U Device State Settings Device Network User Logs System C)中文 English
Network	SNMP Agently (1/x2c) Settings	
ь нттр	Get Community: public	
SNMP	Set Community: private	
SMTP	Trap1 IP. 0000	
L Telnet	Trap2 IP: 0000	
L→ NTP	Save	
	SNB/D Anenth/A) Settinas	
	SMID:/	
	Account	
	Passwort	
	Private Key:	
	Saw	
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SMTP Settings

Click SMTP from the network navigation tab to enter the SMTP setting as shown above. Fill in the parameters of SMTP service including SMTP account, password, SMTP server, working mode (SMTP/SMTPS) and e-mail recipients (up to 5 recipients), then Click Save. SMTP settings will take effect when PDU is restarted.

SMTP test: Fill in the recipients address and click "Test" SMTP setting is successful if test email was received. If not received, please double check and configure the SMTP again.

ARC	iPDU	Device State Settings Device Network User Logs System	English
Network		Hall Cyclinn Collinon	
👆 НТТР		Mail Sending Account:	
SNMP		Mail Sending Password:	
SMTP	-	Mail Sending Server Address:	
		Mail Receiving Users List:	
		SMTP Port 25	
		SMTPS Port: 465	
		Work Mode: SMTP •	
		Test Delete Add Modify	
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Telnet Settings

Telnet: Select "Enable" or "Disable" (Enable by default) and save, make sure to restart the software after modification. Telnet account and password is the same one used for login. Telnet port is 23.

ARC	iPDU	Device State Settings	Device Network	User Logs	System	🕐 中文 English
ARC ARC Network HTTP DHCP SNMP SMTP Tehent NTP	IPDU Telvet Settings Username: Password Telvet Port: Telvet Sane	Dence State Defings	Doved Network	Uber Logi	Bystem	G 412 Esgini
<	_	Copyright© Shenz	hen Clever Electronic Co.,LTD All rig	hts reserved.		

Note: telnet settings will take effect when iPDU is restarted.

NTP Settings:

NTP section displays the device current time which is also the time recorded for the logs.

ARC IPDU		Device State Settings Device Network User Logs System) 中文 English
Network	Local Time		
	Local Time: Device Time:	16-01-2019 13-42-12 16-01-2019 13-40-56	Get time
SMTP	Network Time	171	
u NTP	NTP Server:	i cartos pool não org	
	Device Time:	(contribution) tempergy, contributing, contributions, under B *	Get time
		Copyright® Ethersthein Clever Electronic Co. LTD All rights reserved.	

- Local time calibration Click Time Acquisition to synchronize the iPDU system time to the local machine.
- Network time calibration Click Time Acquisition to synchronize the iPDU system time and date to the specified time zone according to the NTP server.

Note: Make sure the iPDU is connected to the internet when synchronizing the system time

User Settings

- Create new account: Click User Settings tab and fill in the user name, password, confirm password, then click Add to create new user account.
- Edit user account: Click User settings, fill in the new user name, password and confirm-password in the right side of the existing User name and Password, then click Save.
- Delete User account: Select the user account from the user list and click Delete.

Note: The maximum length for user name and passwords is 10 characters, the user name and password exceeds the maximum of 10 characters will be a failure action. The default Administrator cannot be deleted.

• Permission settings: Click permission setting and select the Administrator or normal user from the drop-down list, then click Save button.

Note: Normal users don't have permission to do the configuration (Save/configure/delete button will not be available), only the administrator has the full permission to do so.



Logs

- Log type: Alarm log and operation log
- Log information: time, log type and detailed information
- Memory capacity: Max 300 logs. The initial logs will be removed when reached 300 logs.
- To view the logs, click a page number to open a specific page of the log
- Every page display 30 logs and maximum support to 10 pages; the initial pages will be deleted when over 10 pages
- To delete the log, click Delete on the web page, at the prompt, check OK to delete all the logs.
- To export the log: The logs from the current page can be exported via log.xls format through IE/Google/Firefox browser.



Note: At the prompt of "Sever object cannot be built", please try again after configuring the security level of IE browser following the below steps:

Internet Explorer:

- Tools \rightarrow Internet Options \rightarrow Security \rightarrow Custom Level
- Tick off Enable (unsafe) from Initialize and script ActiveX controls not marked as safe for scripting → OK → OK

System command settings:

To Restart or Restore to factory settings from the system command drop down list.

ARC IPDU		Device State	Settings	Device	Network	User	Logs	System	① 中文	English	^
System	System										1
System Settings	Select Activity:			Restart	•						1
	Save										
		Сор	vright© Shenzhen (Clever Electronic	Co.,LTD All rights	reserved.					
4										•	5

SNMP access

This software supports SNMP V1, V2C and V3, a MIB file can be provided at customer's request. User can view the power information and environment status and receive the alarming from the device. After enabling the SNMP function from Web Interface, A SNMP management software is required to be installed. Please refer to protocol instruction for the OID information of the SNMP.

Telnet Command Line Interface

User can use the Telnet command line interface to view, configure and manage the Rack PDU remotely and easily. Telnet does not support the Daisy chain connection, user can only access and manage the Master unit.

- To open the Telnet client by Start → Run command → enter "Telnet" in the input box and click OK.
- Enter the IP address as illustrated in the figure below.



Press ENTER. At the prompt, enter your user name and password to log in to the command line interface as shown in the figure below.



"PHASE" Command

Use the PHASE command to view the power data including current, voltage, power, power factor, and power consumption on each phase. Command line format: PHASE as shown below.



"OUTPUT" Command

Use the OUTPUT command to view the current, power, power consumption and ON/OFF status at individual outlet level.

Command line format: OUTPUT; see figure below.

國 192.168.1.163 - PuTTY	1		1.00	
				A
Command:output				
Output1: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output2: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output3: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output4: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output5: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output6: 0.0 A(010)	0.0 kVA	0.8 Kwh	Status:ON	
Output7: 0.0 A(010)	0.0 kVA	0.8 Kwh	Status:ON	
Output8: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output9: 0.0 A(010)	0.0 kVA	0.1 Kwh	Status:ON	
Output10: 0.0 A(010)	0.0 kVA	0.1 Kwh	Status:ON	
Output11: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output12: 0.0 A(010)	0.0 kVA	0.3 Kwh	Status:ON	
Output13: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output14: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output15: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output16: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	_
Output17: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	=
Output18: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output19: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output20: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output21: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output22: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output23: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Output24: 0.0 A(010)	0.0 kVA	0.0 Kwh	Status:ON	
Command:				-

"SENSOR" Command

Use the Sensor command to view the temperature/humidity status and its threshold Command line format: SENSOR; see figure below.



"ON/OFF" Command

Use the ON/OFF command to switch On/Off the individual outlet, outlets from each phase or all outlets. Command line format: ON/OFF

(index) (operation) see figure below.

[index] Individual outlets, Group, Phase.

【operation】 Serial number 1 means the outlet 1 from phase 1; details below:



(index)

OUTPUT

Description

Command:ON			
on output [operati	onl		
operation:'1' is t	he output1 switch		
on group [operatio	n]		
operation: '1' is t	he group1 switch.		
on phase all			
Command:ON OUTPUT	1		

Enter command line: ON OUTPUT 1 to switch on the outlet 1 Enter command line: OFF OUTPUT 1 to switch Off the outlet 1 OUTPUT command can switch ON/OFF one outlet at one time.



Enter command line: on group 1 to switch on outlet from branch circuit 1

Enter command line: off group 1 to switch off outlet from branch circuit 1



REBOOT Command

Use the REBOOT command to restart the device as shown below.



RESET Command

Use the RESET command to restore to factory settings as shown below.



QUIT Command

Use the QUIT command to logout the Telnet command line as shown below.

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Command:quit	
Command:	Ţ

HELP Command

Use the HELP command to shows general help, as shown below.



MODBUS-RTU access

Use two-wire RS-485 serial communication port for serial access. Modus-RTU protocol configuration including Modbus-RTU communication address (1-99), baud rate (4800, 9200, 19200, 38400, 115200), data bit (8), parity (no), stop bit (1)

Note: The serial communication data is collected from the SER port of PDU.

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5. TECHNICAL SPECIFICATIONS

Items		Specifications
Voltage	Input Voltage	1P: 100VAC – 240VAC (50/60 Hz)
	Input Plua	Standard IEC Plug or connector
	Power Cord	$32A$ · $3x6mm^2$
		$63A^{\circ}$ $3x16mm^2$
		3*16A: 5x2.6mm ²
		3*32A: 5x6.0mm ²
	Cable Length	3M
	Max Load Current	1P: 16A, 32A, 63A, 3P: 3x16A, 3x32A
	Overload Protection	16A / 32A hydraulic breaker
Output	Sockets	IEC320 C13 (locking), C19
	Socket Quantity	8 / 24 / 36 / 42 Outlets
	Output Voltage	1P: 100VAC – 240VAC (50/60 Hz)
	Max Output Current	16A, 32A
	Max Phase Current	16A, 32A
Control	NET Port	1xRJ45 Ports
Ports	Daisy Chain Port	2xRJ45 Ports
	SER Port	1xRJ45 Ports
	Temp & Humid Port	2XRJ11 Ports
	Audible and Visual Alarm Port	IXRJTT Ports
Display	Working State	1xLED
	Power Pulse	1xLED
	Alarm	1xLED
	IP Address, PDU	2.8" LCD Screen
	State, Value, Alarm	
Load	Total Current	16A / 32A, (1% accuracy)
Current	Individual Load	Resolution: U.UIA, Response: 500ms
Display	Current	NA / NA, (1% accuracy) Resolution: 0.014 Response: 500ms
Sensors	Temperature	$n^{0}C \sim +45^{0}C (+/-1^{0}C)$
5015015	remperature	Response: 400ms
	Humidity	10 ~ 90%, (5% accuracy)
	,	Response: 400ms

ltems		Specifications
Size	Dimensions (LxWxD)	0U: 1829x56x52mm,
		1U: 482x216x44.4mm
	Mounting	0U: Tool-less (button), 1U: EIA Rails
Case	Color	Black
Accessories	Installation Bracket	1 Set
(included)	Network Cable	2M, Blue
	Serial Cable	2M, White
	User Manual	1 set, CD
(Optional)	Sensor	Temperature / Humidity Sensor
Environment	Operating	0° C ~ +45°C, Relative Humidity: 5%
		~ 95%
	Storage	-20° C ~ $+70^{\circ}$ C, Relative Humidity:
		5% ~ 95%
	RoHS	Compliance

6. Warranty & Service

The product is guaranteed for two years from the date of purchase; extended warranties are available for purchase. We will repair or replace the detective products covered by this warranty. If product has already exceeded the warranty period or the problem are caused because of illegal operation, a corresponding fee will be charged.

The below cases are not covered by the warranty:

- Problems caused because of improper maintenance
- Problems caused because of unauthorized change, modification or improper use
- The devices are not used in the rated physical environment
- Problems in consequence of any Force Majeure incidents

Repair notice:

- Make sure to use a protective hard carton when arrange the shipment to repair. Damage occurred during the shipment is not covered by the warranty.
- Make a short note about the problem and the operation process.
- Owner is responsible to pay for the shipping cost as well as the customs duty.
- Please list your name, address and phone number so that we can contact you at any time.