Safer, More Energy-efficient Power Distribution Products For Data Centers

High performance stability and security, and output a full range of solution services and technical support

We are constantly optimizing, and innovating technologies. We develop them to make them safer and more energy efficient Throughout the life of your data center, we back every product and every ins tallation with better performance, and technical service that is unmatched in the industry. Add to that a vendor focused on making, products more energy efficient, more secure, more stable, and more professional, and you'll get more bang for your infrastructure buck on your investment.



No.6 IndustrialRoad, Zhangqi Town, Cixi City, Ningbo, Zhejiang Province, China

Contact: 0574-63783045



Data Center SystemsRack Power Distribution



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Company Profile

Ningbo DCDU Power Distribution Equipment.,Ltd. was established in 2014 and has become a comprehensive technology based enterprise with the development, sales and service of electric power products, server cabinets, PDUs, DCDUs, precision power distribution and other products. Specializing in the research of energy-saving data center cabinets, we have been engaged in the field of modular data center research for 10 years, and have accumulated rich experience in project operation and implementation. 2020 in response to the national requirements for "green server room", we launched a new fully enclosed cold channel cabinet / intelligent PDU / low-power energy-saving DCDU. Products are the root of our enterprise development, the new intelligent PDU products to achieve each road status parallel monitoring, data recording monitoring, real-time alarm powerful functions.

We will enthusiastically provide every customer with perfect pre-sales and after -sales services, and provide timely and comprehensive technical support.

All the work done by every department as well as every employee of our company is to serve our customers better, to design suitable products for our customers under the condition of quality and quantity, and to meet all the needs of our customers is our service purpose.

We take "quality for the body, integrity for the virtue" as the corporate culture, adhere to the quality of the Chinese intellectual manufacturing road adhere to the in tegrity to win the world business guidelines. We will keep pace with the market demand and actively build a first-class solution service integrated enterprise, we will continue to cooperate with more active and honest old and new customers with better quality products and services.

Customized Service Team





MARKETING TEAM

Responsible For PDU Pre-sales And After-sales Service, Analyze Customer Requirements Such As Use Environment And Power Connection Equipment.

RESEARCH AND DEVELOPMENT GROUP

Responsible For The Development And Implementation Of PDU Products, Starting From The Requirements Of Function And Applicability, To Complete The Product From Design To Mass Production.

DELIVERY TEAM

Responsible For PDU Products From Production To Logistics, Open Up The All-channel Supply Chain, To Achieve Fast Delivery Of Quality And Quantity.

Quality Assurance

IDCPDU From Raw Materials To Finished Products Of The Whole Industry Independent Production, 70% Of The Production Line To Achieve Fully Automated Production, To Avoid Manual Operation Caused By Uncontrollable And Error, Product Quality Is Stable, High Production Efficiency, Automation Coverage. Idcpdu Continues To Innovate Industry Technology Steadily With The Concept Of "Safer, More Energy Saving", And Deeply Rooted In The Quality Concept Of Artisan Spirit.









Related Certification And Qualification











IDCPDU

IP Custom Series

Independent Switch | 12V input | Effective Cooling Material

Precision

Meter Level Measurement Standards



Energy Conservation Lower Energy Consumption



Innovative Magnetic Technology
Effectively Improve The Stability Of Equipment



Compatible
Supports Multiple Network Security Protocols
And Multiple Control Modes



Hot Swappable Monitoring Table Smart Controller With Hot Swappable Function



Function Introduction

Supports Ethernet (TCP/IP) And RS485 Communication Access.

Communication Protocols: SNMPV1N2N3, MODBUS-RTU, MODBUS-TCP, HTTPS, SSH, Etc.

Intelligent PDU | Module introduction

Rs4b5: Serial Port

Data Debugging USB

(support Mddbus-rtu Protocol Access)

Can Be Used As The Temperature

LCD Display: Liquid Crystal Display

And Humidity Sensor Interface

Encryption Protection: SSL, SYSLOG, LDAP, RADIUS And Other Network Security Protocols.

RS485 Cascade Port (Supports A Maximum Of 64 Cascades).

Supports Single-phase And Three-phase Power Distribution.

Supports The Output Bit Software Grouping Function.

Can Monitor The Total Input, Each Branch, Each Output Port Of The Current, Voltage, Power, Electrical Energy, Power Factor And Other Parameters.

Control Function: Each Output Port Independent On/off/restart Control, Output Port Sequential Power On And Off, Zero Crossing Detection.

Support Multi-user Management (configurable Permissions).

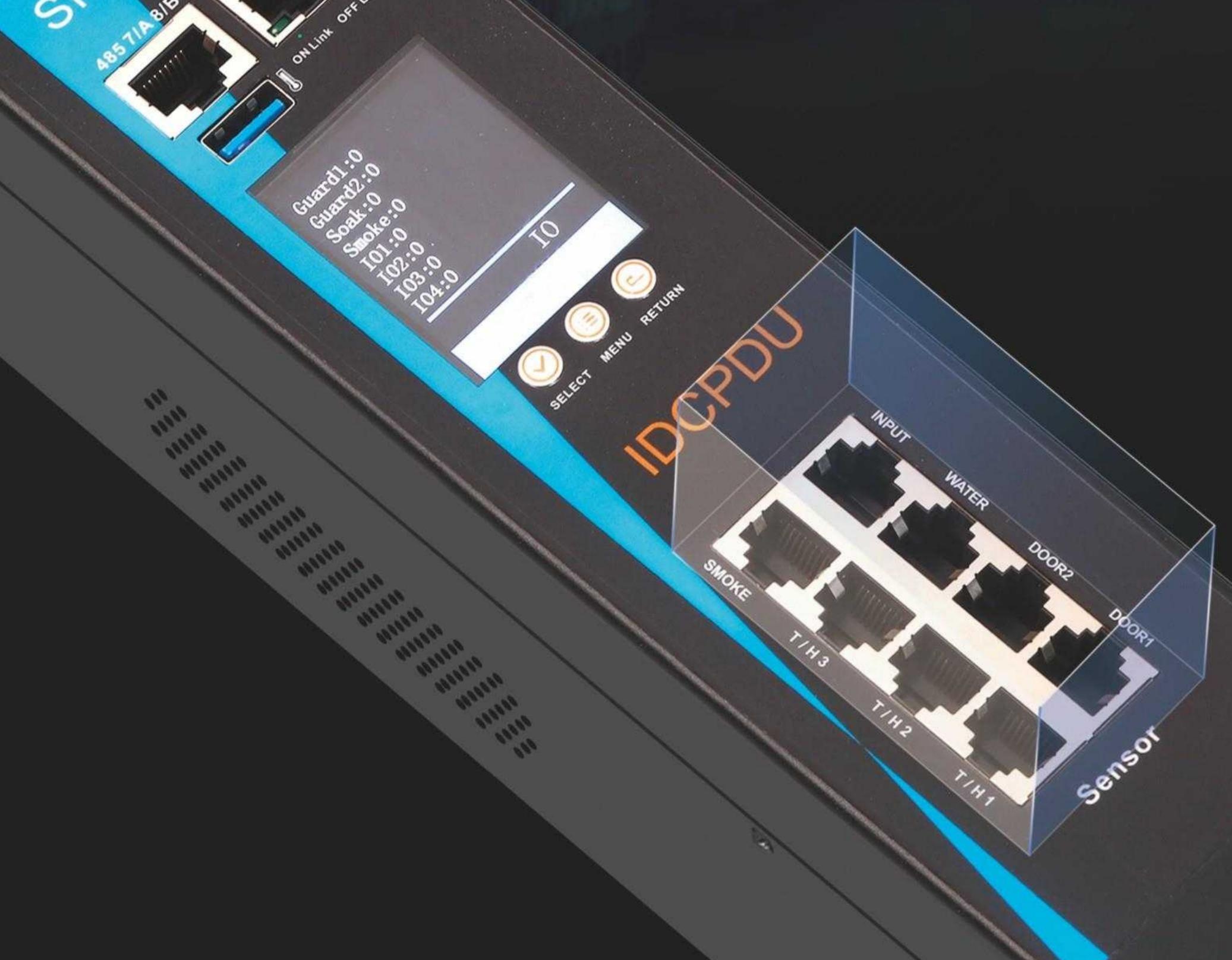
Function Expansion: Support Temperature And Humidity, Smoke, Water Immersion, Access Control, Circuit Breaker Status Monitoring Function, And Sound And Light Alarm And Other Expansion Modules.

Hot Swap Function: Support The Replacement Of The Host Watch Head And Output Module (slave) With Power On, Without Affecting The Use Of The Device.

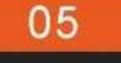
Alarm Function: Alarm For Overvoltage, Undervoltage, Overcurrent, Power, And Environment Overlimit, And Alarm Function For Buzzer, Indicator, And Email.

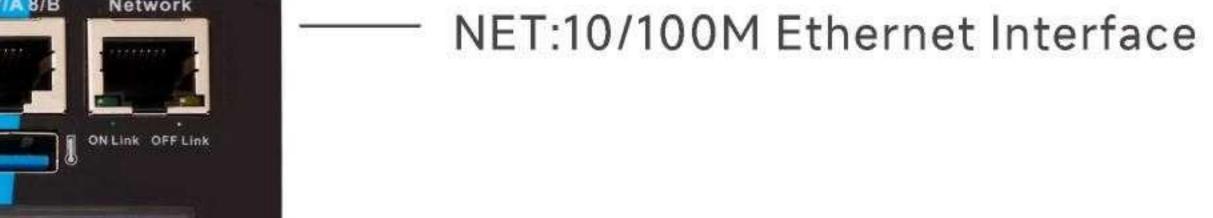
Can Store User Logs, Alarm Logs, Operation Logs.

Note: The Measured Total Current, Total Voltage, Total Power, Total Electric Energy, Power Factor And Other Parameters Are True RMS Values.









MENU RETURN

T/H1T/H2T/H3: Indicates The Temperature And **Humidity Detection Port**

SMOK: Indicates The Smoke Alarm Detection Interface INPUT: Four-way Switch Port/Air Conditioner Port

WATER: Water Flood Interface DOOR1 DOOR2: Access Control port Remote Management Through Http Web, Snmp, Or Telnet Remotely Manage Device Alarms, Parameter Settings, And Data Logs

MIN SIA

Environmental Monitoring Supports Up To 3 Ready-to-play Analog Sensors

Interface Clearly Visible LED Interface

Supports Hot Swap Of The Mainboard And Slave Board

Integrated PCB Welding Structure, Stable And Reliable, Minimize Temperature Rise



Power And Electrical Energy Measurement : (V.A,VA,W,kWh,PF)

Measuring Accuracy Of Billing Level Can Be Achieved





Advanced Hydraulic Magnetic Circuit Breakers Can Also Maintain Stable Operation Under Extreme Temperature Conditions

Multiple Output Ports Are Available
Anti-slip Structure (Optional) IEC Output Bit
Anti-fall Structure (Optional) National Standard Output Bit
Other Countries Standard Output Bits, Etc

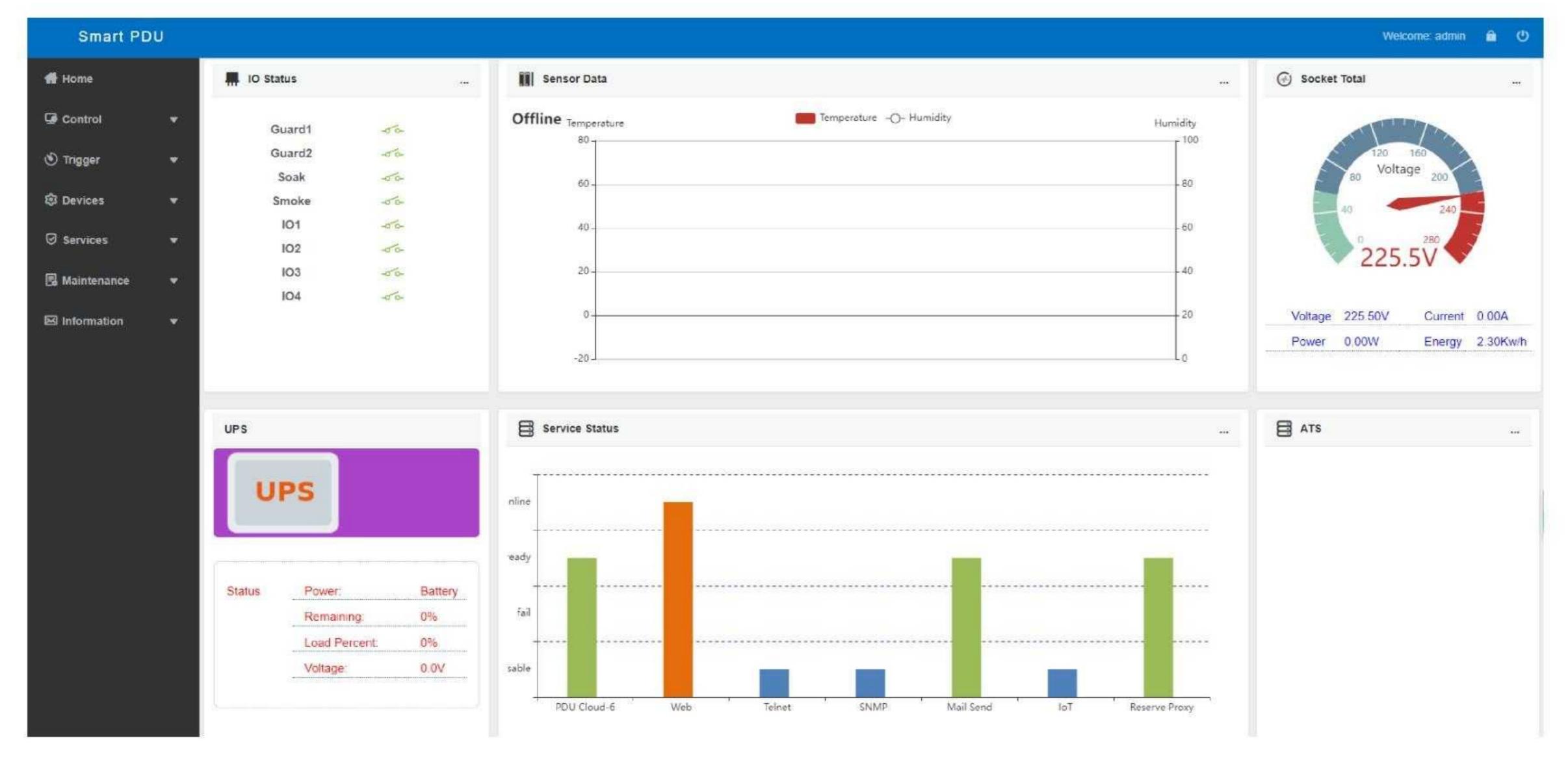
Customized PDU | Horizontal

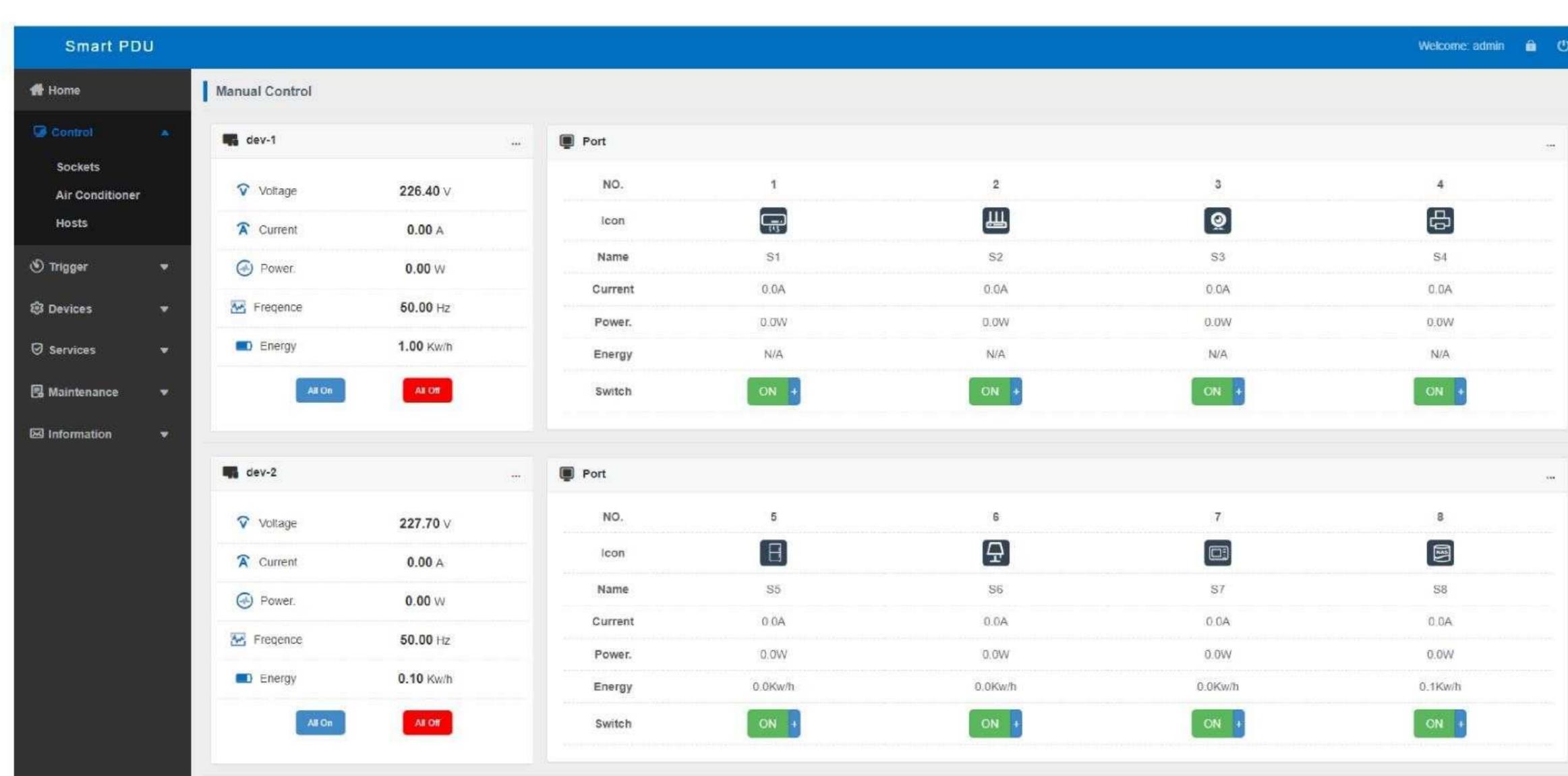


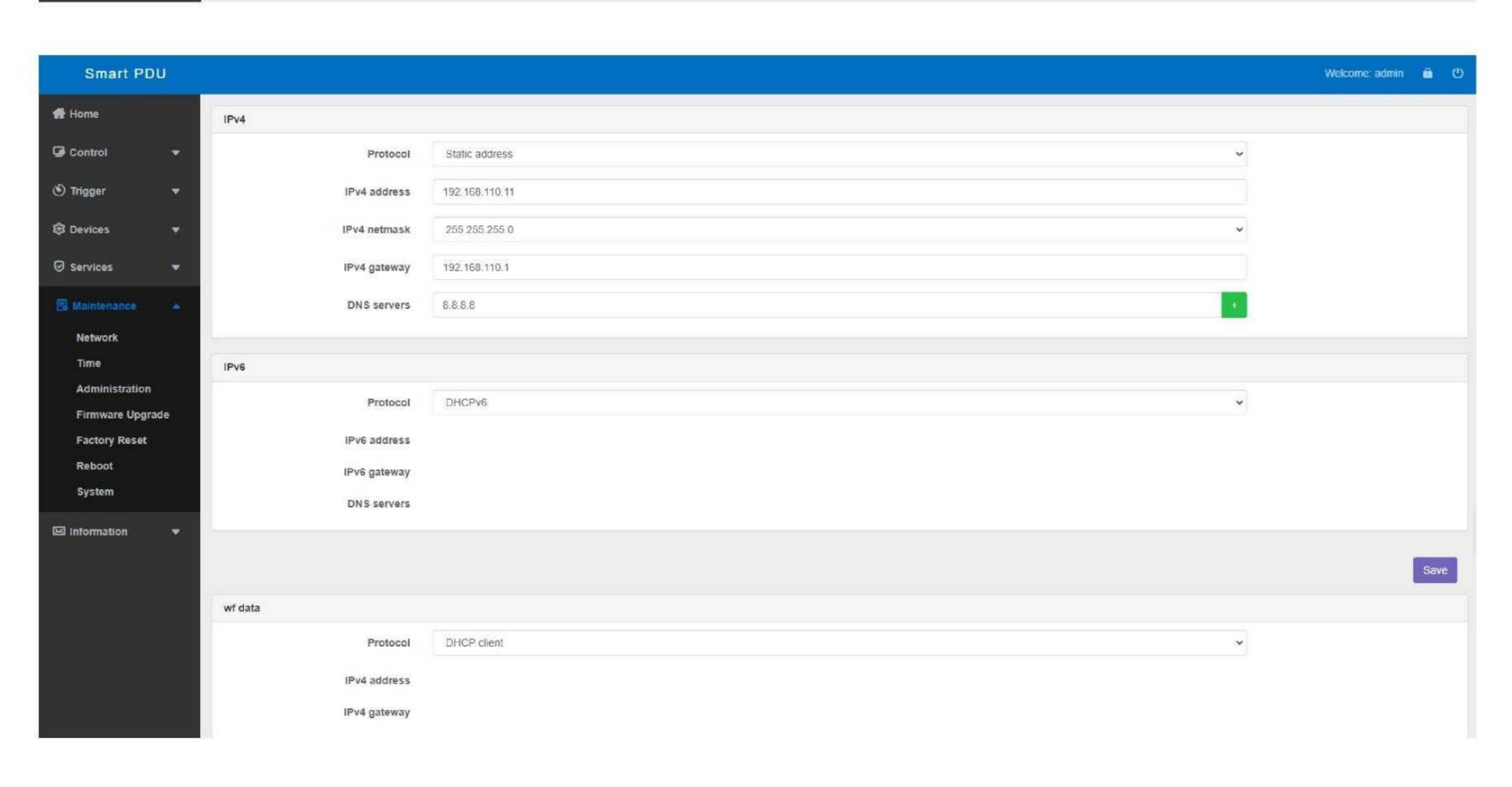
Product Parameter Specification Sheet

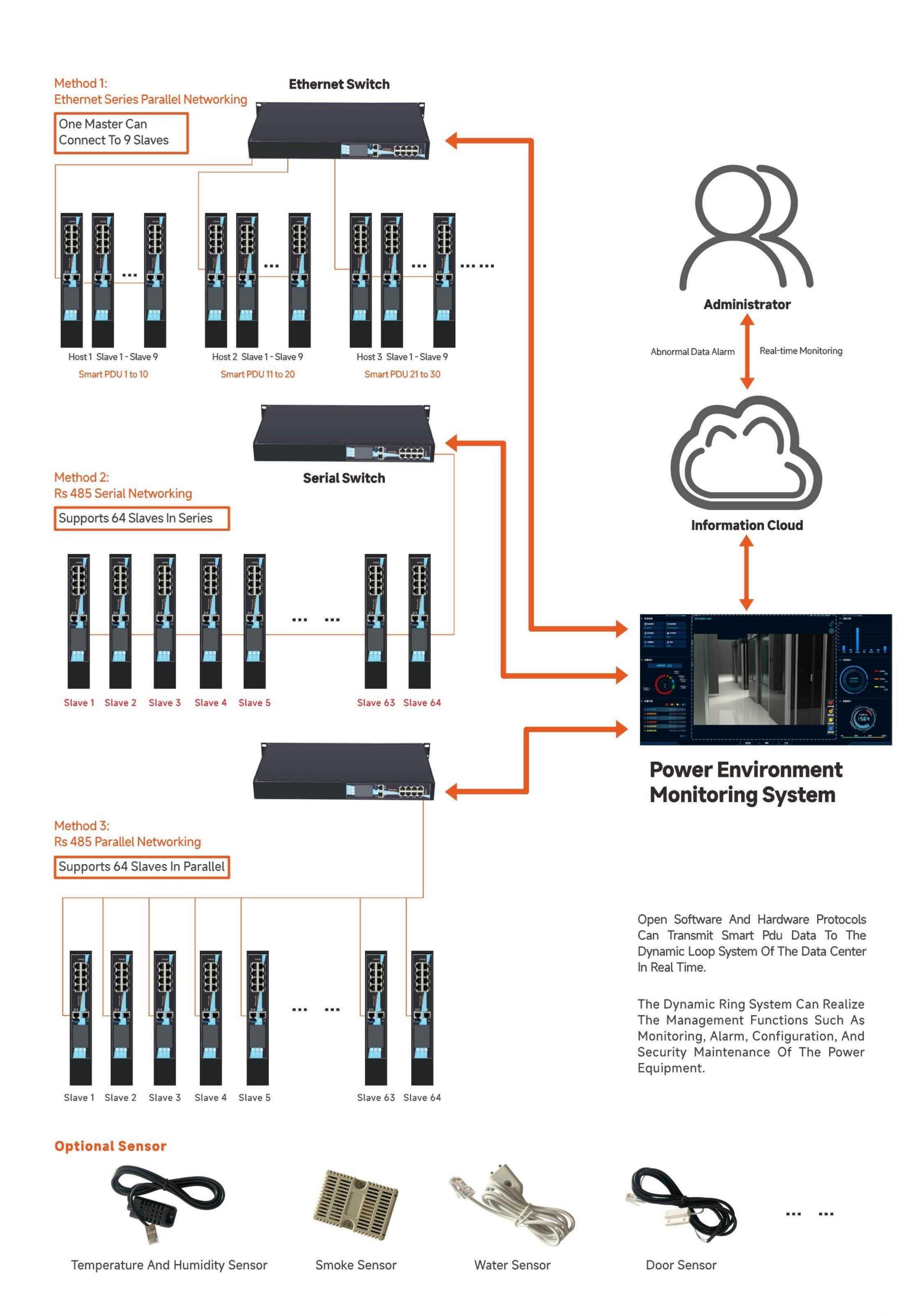
Feature		Description	Function / Parameter	Matched(√)
Working Voltag	ge	Normal Conditions	90V~250V AC	√
Input/Output C	Current	Max Inputoutput Current	10A-32A/10A- 16A	√
Working Frequ	ency	Normal Conditions	47Hz~60Hz	√
	Network	Network Port WAN or LAN Access	10/100Mb Adaptive Networking	√
Access Ports	Serial	Serial Port	RS485 Port	√
	Sensors	Sensor Ports	RS485 Port	
	HTTP/HTTPS	Web Browser Access	Internet Explorer, Google Chrome, Edge, Firefox etc.	√
	Telnet	Simple Command Line	Supports Telnet Protocol And Terminal Software To Connect To The Device	$\sqrt{}$
	SSH	Encryption Command	SSH V2 supported	√
Data/	TCP/IP	Network Communication Protocols	Support Network Remote Monitoring And Debugging	√
Management Access	ModBus	A Serial Communication Protocol	Using Modbus RTU	√
	MQTT	IoT Protocols	Communication Protocols Based On The Internet Of Things	√
	Web SOCKET	A Communication Network Protocol	Cloud Transport Peer-to-peer Protocol	√
	SNMP	SNMP Centralised Monitoring	SNMP V1, V2, & V3	√
		Supported by various popular Operating Systems	Windows 7 18 18.1 110 & Linux etc.	√
System Capability		System Integration	Telnet / SSH Protocol	√
		RS485Connection	Customized Protocol	√
Software/Firm	ware	Software / Firm Ware Updates	Via Web Site / Support Technician	√
Update / Upgra	A STATE OF THE STA	Bios Firmware Updates (if Necessary)	Support Technician	√
		Total Current Limits (low / High)		√
Alarm Setting	Thresholds	Temperature Limits +/-	Automatic Detection And Notification Via E-mail (SMS Notification	√
		Humidity Limit	Available For 4G Versions)	√
		Outlet Led Indicators	LED Indicator Per Outlet	√
LED Indicators	s / Display	Segment Display	LCD Display Shows: Currentholtage. Product Information. Alarm Messages	√

Software Independent Development, Deep Encryption **Support Customization**









Product Features

Electric Energy Measurement And Monitoring	Sub Monitor & Sub control	Master	Master Monitor & Control
Electric energy measurement (kWh)	√	√	√
Power measurement (W)	√	√	√
 Power measurement per phase input (V, A, VA, kWh, PF) 	√	√	√
 High-precision billing-level measurement performance 	\checkmark	\checkmark	√
 Embedded logs facilitate recording/viewing/reporting 	√.	√	√.
 User-defined alarm thresholds and notifications 	√	√	√
Output Port Switching Control			
 Remotely control the opening and closing of a single output port 	√		
 Remotely control main PDU power on and off 	√	√	
 The user-definable power-on delay time allows IT equipment 	√		
 Automatic sequential opening can avoid excessive inrush current 	√		
 Role configuration and user permission security settings 	√		
Power Measurement At The Output Port Level			
 Electrical energy measurement at output port (kwh) 	√		
 Power parameter measurement of output port (V, A, VA, PF) 	√		
Design Features			
Space-saving ultra-thin body design	√	√	✓
Adopt liquid magnetic circuit breaker	√	√	√
 Adjustable and tool-free mounting system 	√	√	√
Socket with locking structure			
Environmental And Safety Management System			
 Optional plug-and-play environmental monitoring sensors including temperature, temperature, dry contact and water leak detection 			
 User-defined alarm thresholds and notifications Email push operation records and threshold alarm information 	✓	√	✓
Network Management And Local Display Interface			
 Full-featured network management and alarm capabilities, supporting multiple transmission protocols including HTTP, HTTPS, SSH, Telnet, SNMP, FTP, and email 	√	✓	✓
 Strong encryption and password systems, and advanced authorization mechanisms including local permissions, LDAP/S, and RADIUS 	✓	√	✓
 Supports up to 10 smart PDUs and 30 environmental monitoring sensors with only one IP address 	√	√	√
 Large screen, high visibility OLED display for circuit breaker status monitoring 	ng √	√	✓
Circuit Breaker Status Monitoring			
 Dynamically monitor and alarm the on/off status of the circuit breaker 	✓	✓	✓
API			
Provide API interface, users can access DCIM according to their own needs		_1	_/
Trovide Artificenace, users can access Deliviaccording to their own needs	V	v	•



Hot Swappable RS485 Module



Supports Multiple Network Security Protocols And Multiple Control Modes

Features

Monitoring Voltage: single-phase 110V-250VAC; three-phase 208V-415VAC; DC 48V-360VDC

Monitoring Current: MAX 63A

Electricity Measurement: including voltage, current, power, electric energy and other electric parameters.

Alarm Function: overvoltage, undervoltage, overcurrent, power, and environmental limit alarms, and has buzzer and indicator light alarms.

LCD Display: Large font screen displays basic power information, clear and accurate, and communication parameters can be set through buttons.

Communication Function: RS485 cascade interface (up to 64 units supported in cascade), using standard Modbus communication protocol.

Hot-swappable Meter Function: There is no need to cut off the power to replace the meter, and it won't affect the running equipment.

Function Expansion: Supports expansion of temperature, humidity, and circuit breaker status monitoring functions.

Note: The measured total current, total voltage, total power, total electric energy, power factor and other parameters are true effective values.



Main Technical Indicators:

- 1. Working power supply: 85V~264ACIDC;
- 2. Accuracy level: Level I;
- 3. Measuring range: 0.5A-63A, 100~300V AC/DC;
- 4. Current resolution: 0.01A;
- 5. Alarm function: current overcurrent alarm, the overcurrent alarm value can be set through the menu or communication

II Communication Protocol

Communication adopts MODBUSRTU protocol, and the data format of a frame is: 1 starting bit + 8 data bits + 1 stop bit baud rate 9600bit/S

1. RTU Command Format And Examples

03H Read a single or multiple consecutive registers

Download the command:

	BYTE	EXAMPLE
Device address	1	01H
Function number	2	03H
Address (High Byte)	3	01H
Address (Low Byte)	4	02H
Word count (N) (High Byte)	5	ОН
Word count (N) (Low Byte)	6	0.2H
CRC (High Byte)	7	CRC (H)
CRC (Low Byte)	8	CRC (L)

Note: Read the contents of 2 consecutive words starting at 0102H from the table with address 01H.

2. Communication Interval

The interval between sending two commands is >400ms.

3. Power Reset Command

Command: ID10 0102 0001 02 017C CRC ID: module address: CRC: CRC16 check code.

Communication Timing Recommendations:

- 1. Byte interval: After sending one byte of data, there is an interval of half a byte when sending the next byte of data.
- 2. The interval between sending and receiving: The master sends a command to the slave, and after the slave receives the data, the interval is 30-40ms.
- 3. If the host does not receive the returned data, the host waits for at least 300ms before sending the command again.

IDCPDU®

Industrial Class USB3.0 HUB

Independent Switch | 12V input | Effective Cooling Material



Energy Conservation Lower Energy Consumption



Stabilize
Innovative Magnetic Technology
Effectively Improve The Stability Of Equipment



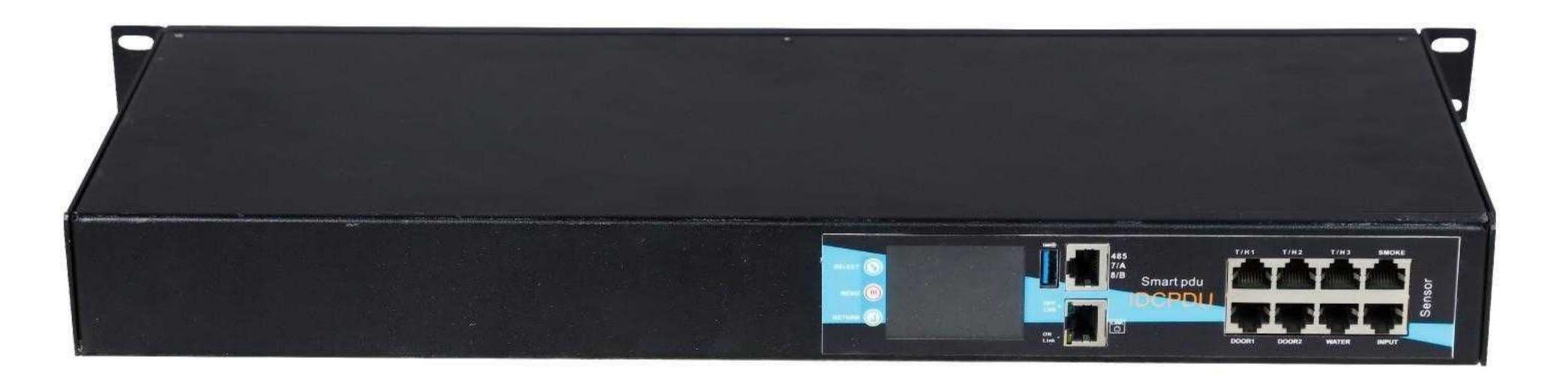
Compatible
Supports Multiple Network Security Protocols
And Multiple Control Modes

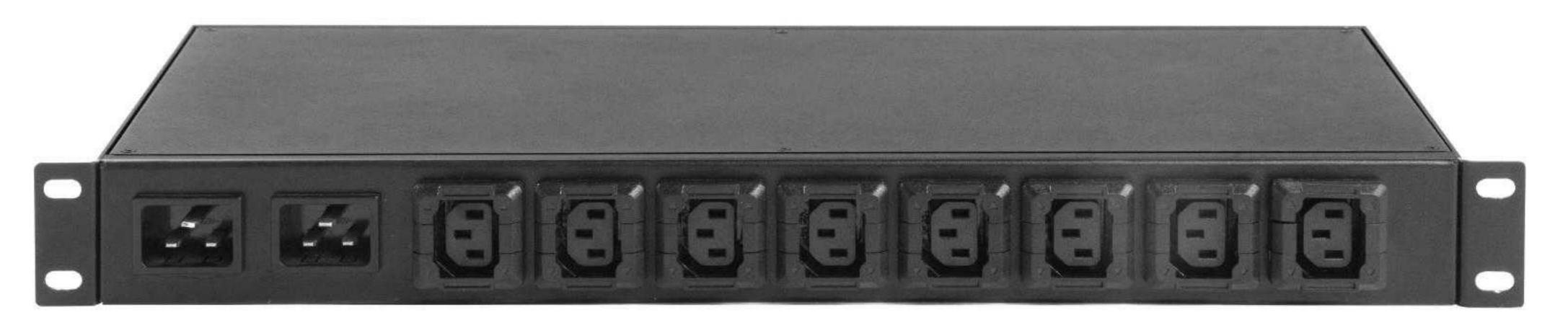


Hot Swappable Monitoring Table Smart Controller With Hot Swappable Function



Automatic Transfer Switch (ATS)

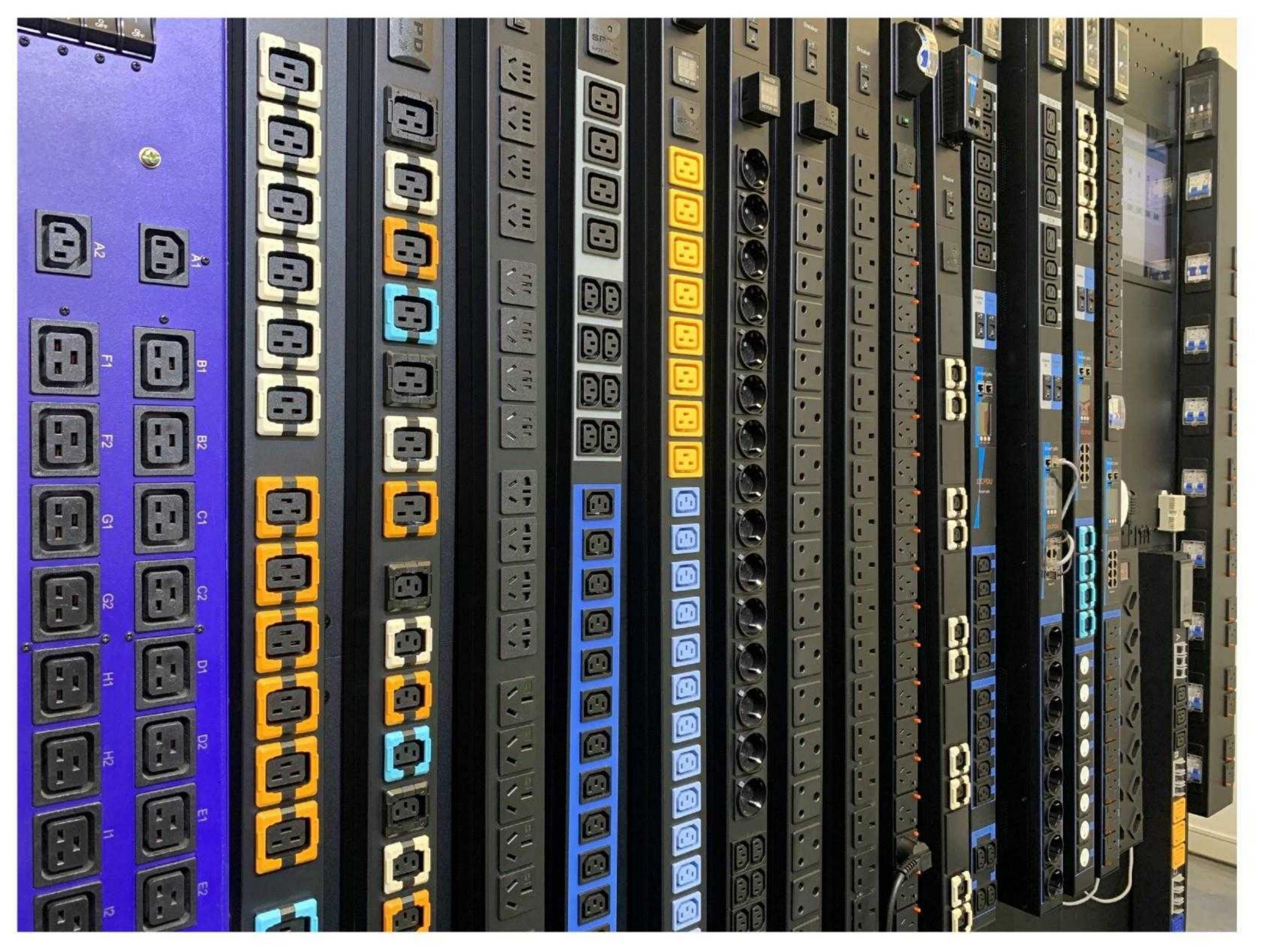




Feature		Description	Function / Parameter	Matched(√)
Working Voltag	ge	Normal Conditions	90V~250V AC	√
Input/Output 0	Current	Max Input/Output Current	10A-32A/10A- 16A	√
Working Frequ	iency	Normal Conditions	47Hz~60Hz	√
	Network	Network Port WAN Or LAN Access	10/100Mb Adaptive Networking	√
Access Ports	Serial	Serial Port	RS485 Port	√
	Sensors	Sensor Ports	RS485 Port	√
	HTTP/HTTPS	Web Browser Access	Internet Explorer, Google Chrome, Edge, Firefox etc.	√
	Telnet	Simple Command Line	Supports Telnet Protocol And Terminal Software To Connect To The Device	√
	SSH	Encryption Command	SSH V2 Supported	√
Data /	TCP/IP	Network Communication Protocols	Support Network Remote Monitoring And Debugging	✓
Management Access	ModBus	A Serial Communication Protocol	Using Modbus RTU	✓
	MQTT	IoT Protocols	Communication Protocols Based On The Internet Of Things	√
	Web SOCKET	A Communication Network Protocol	Cloud Transport Peer-to-peer Protocol	√
	SNMP	SNMP Centralised Monitoring	SNMP V1, V2, & V3	√
		Supported By Various Popular Operating Systems	Windows 7 18 18.1 110 & Linux etc.	√
System Capability		System Integration	Telnet / SSH Protocol	✓
		Rs485 Connection	Customized Protocol	√
Software/Eirm	waro	Software / Firm Ware Updates	Via Web Site /Support Technician	√
Software/Firmware Update / Upgrade		BIOS Firmware Updates (If Nnecessary)	Support Technician	√
		Total Current Limits (Low / High)		√
Alarm Setting	Thresholds	Temperature Limits +/-	Automatic Detection And Notification Via E-mail (sms Notification Available For 4G Versions)	√
		Humidity Limit		√
		Outlet Led Indicators	LED Indicator Per Outlet	√
LED Indicators	s / Display	Segment Display	LCD Display Shows: Currentholtage.Product Information. Alarm Messages	√



Configuration Diversity



Customized PDU | Vertical



Features

- Meet 10a-60a Current Demand
- Configure Junction Box To Avoid Cable Length Restrictions
- Colorful Color Options For Easy Post-management
- Anti-loosening Jack Effectively Prevents The Plug From Accidentally Loosening
- Aluminum Alloy Shell, Sturdy And Durable
- The Integrated Welding Process Of Copper Bars Is Used Internally, Which Has Low Temperature Rise, Large Current Carrying Capacity, Safety And Reliability

IDCPDU®

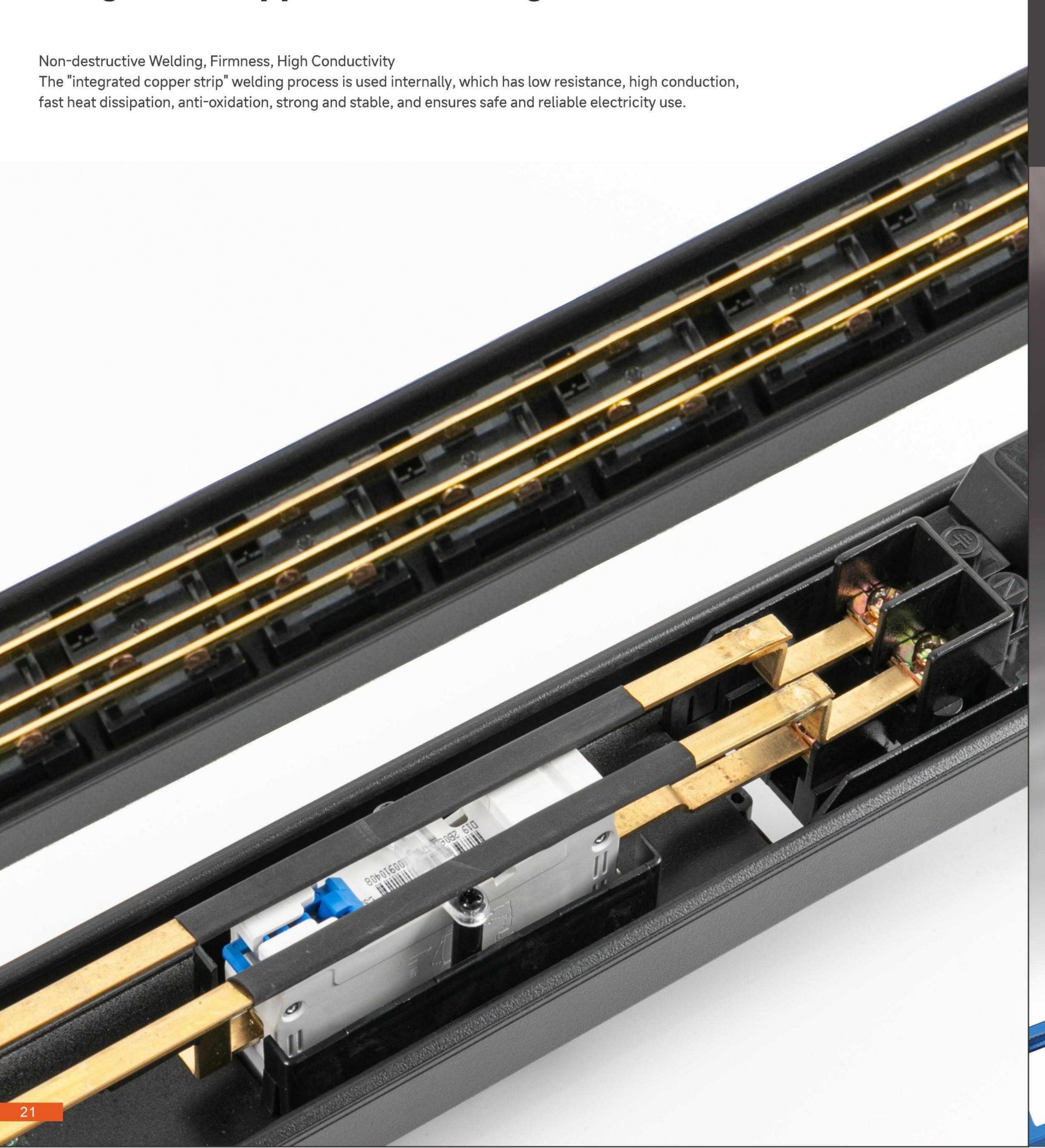
OT Junction Box

Cable Crimping Is More Convenient



IDCPDU®

Integrated Copper Bar Welding Process



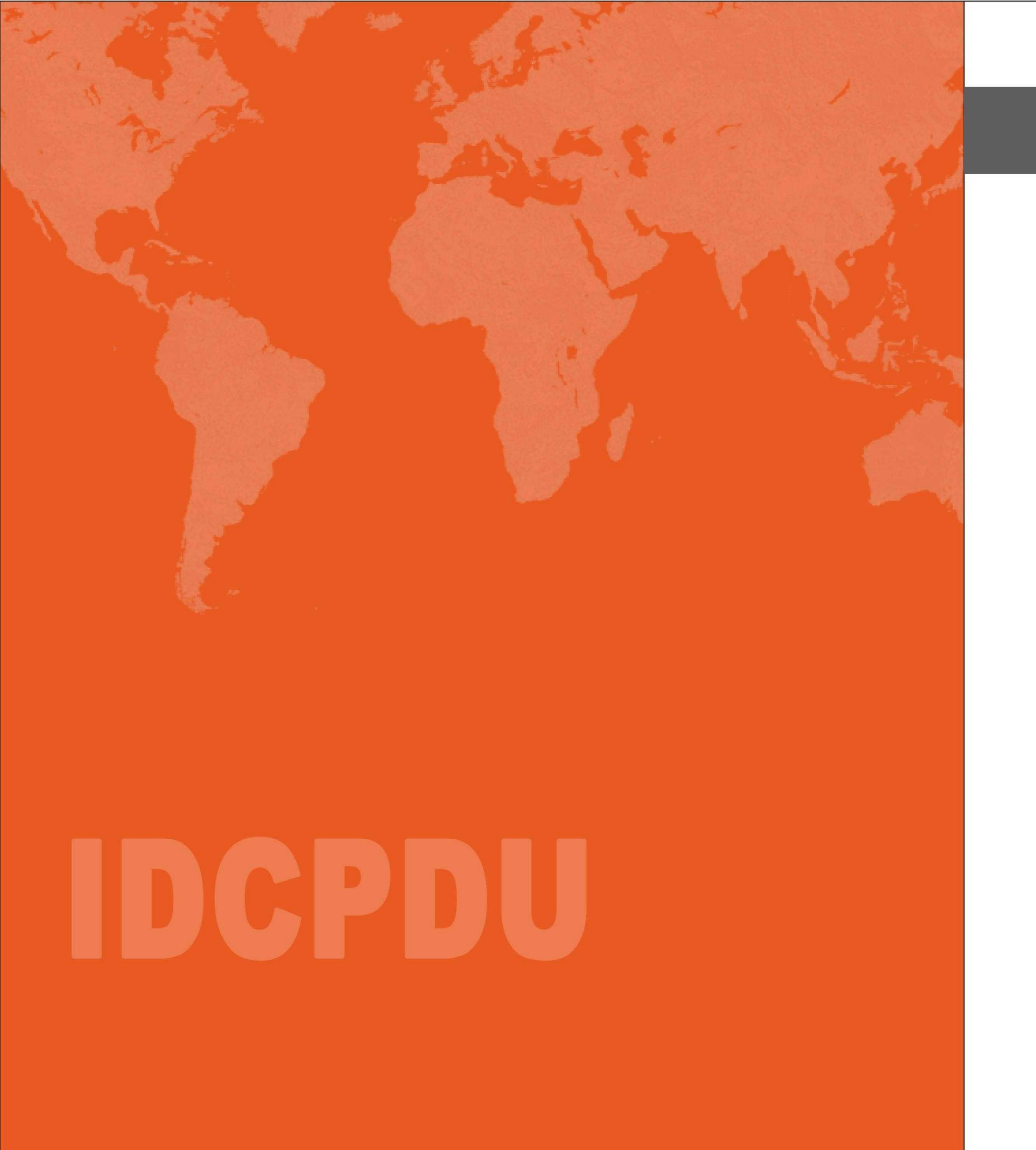
Integrated Aluminum Shell Process Reduce plasticization rate, improve shock resistance, and improve heat dissipation rate. The shell adopts the "integrated aluminum shell" process, making PDU power distribution more environmentally friendly, energy-saving and safer. Multi Shell Hole Type Support



Output Status Indicator Light

Output Status Management Makes Fault Identification Clearer Hot-swappable Indicator Light, No Fear Of Light Aging, Can Be Plugged In And Replaced While Powered On





Plug Series





Chinese type

16A, 250VAC







16A, 250 VAC



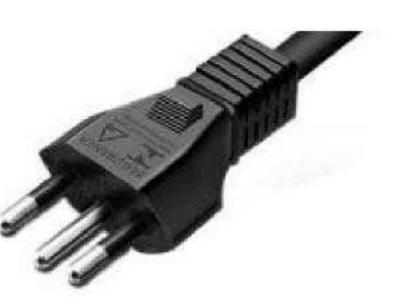


16A, 250VAC





Type Parameter 16A, 250VAC





Type Parameter

Brazilian type







Type Parameter 15A, 127VAC





Australian type Type Parameter 16A, 250VAC



Type Parameter 13A, 250VAC

UK type





IEC-60309-C13

10A, 250VAC



IEC-60309-C14

10A, 250VAC



IEC-60309-C19

Type Parameter 16A, 250VAC



IEC-60309-C20

16A, 250VAC



IEC-60309

Single phase industrial connector (Male)

neter	16A/32A/63A; 250VAC	



IEC-60309

Single phase industrial connector (Female)

Type Parameter	16A/32A/63A; 250VAC
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IEC-60309

Three phase industrial connector (Male)

ype Parameter	16A/32A/63A; 250VAC

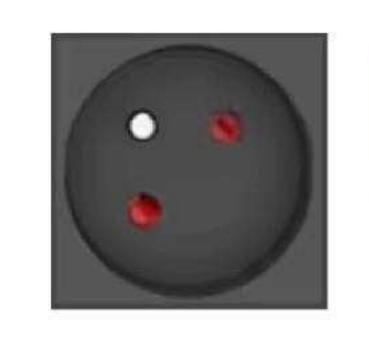


IEC-60309

Three phase industrial connector (Female)

Type Parameter	16A, 250VAC
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Sockets Series



France type

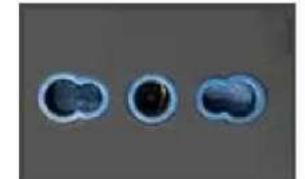
16A, 250VAC | NFC61-314



Chinese type







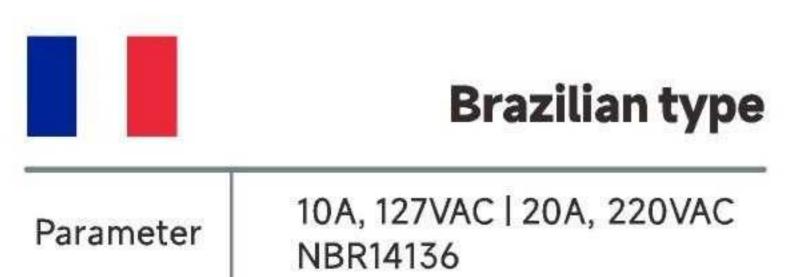
10A, 220VAC | CEI 23-16



UK type

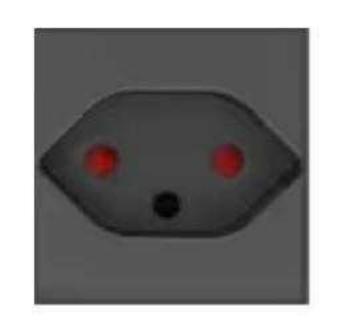
13A, 250VAC | BS1316











	Swiss type
Parameter	10A, 230VAC SEV 1011



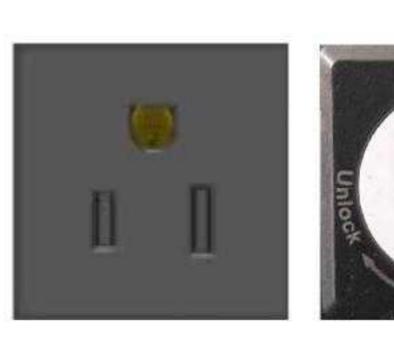
	Germany type
Parameter	16A, 230VAC VDE 0620



**	Isral type
Parameter	16A, 250VAC SI 32



	Universal type
Parameter	16A, 250VAC





	US type
Parameter	15A, 127VAC
	NE MA5-15R / NE MA5-20R















IEC 60320 C14

10A, 250VAC

Type Parameter 16A, 250VAC



IEC 60320 C19



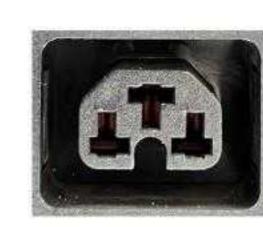






IEC 60320 C14

Type Parameter 10A, 250VAC



IEC 60320 C39

Type Parameter 16A, 250VAC

Protection Series



Circuit Breaker



Plug-in Surge Protection



Ampere-Voltage Meter



Ampere-Voltage Meter



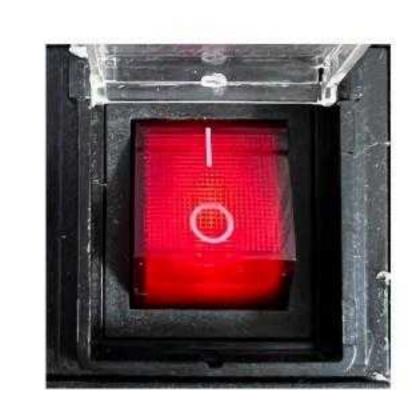
Surge Protector



Overload Protection



Hot Swap Indicator



Double Break Switch



Breaker



Surge Protector