Data center end–of–line power distribution – PDU professional manufacturer

Shenzhen Yiestar Technology Co., LTD.

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The product introduction in this material is for reference only, and the specific details shall be subject to the product manual. If there are any better ones, we apologize for not notifying you separately. The printing process may cause slight differences between the products in the material and the actual products. Our company reserves the final right of interpretation for the content of the material.


PDU product series
Basic PDU | Metering PDU | Smart PDU

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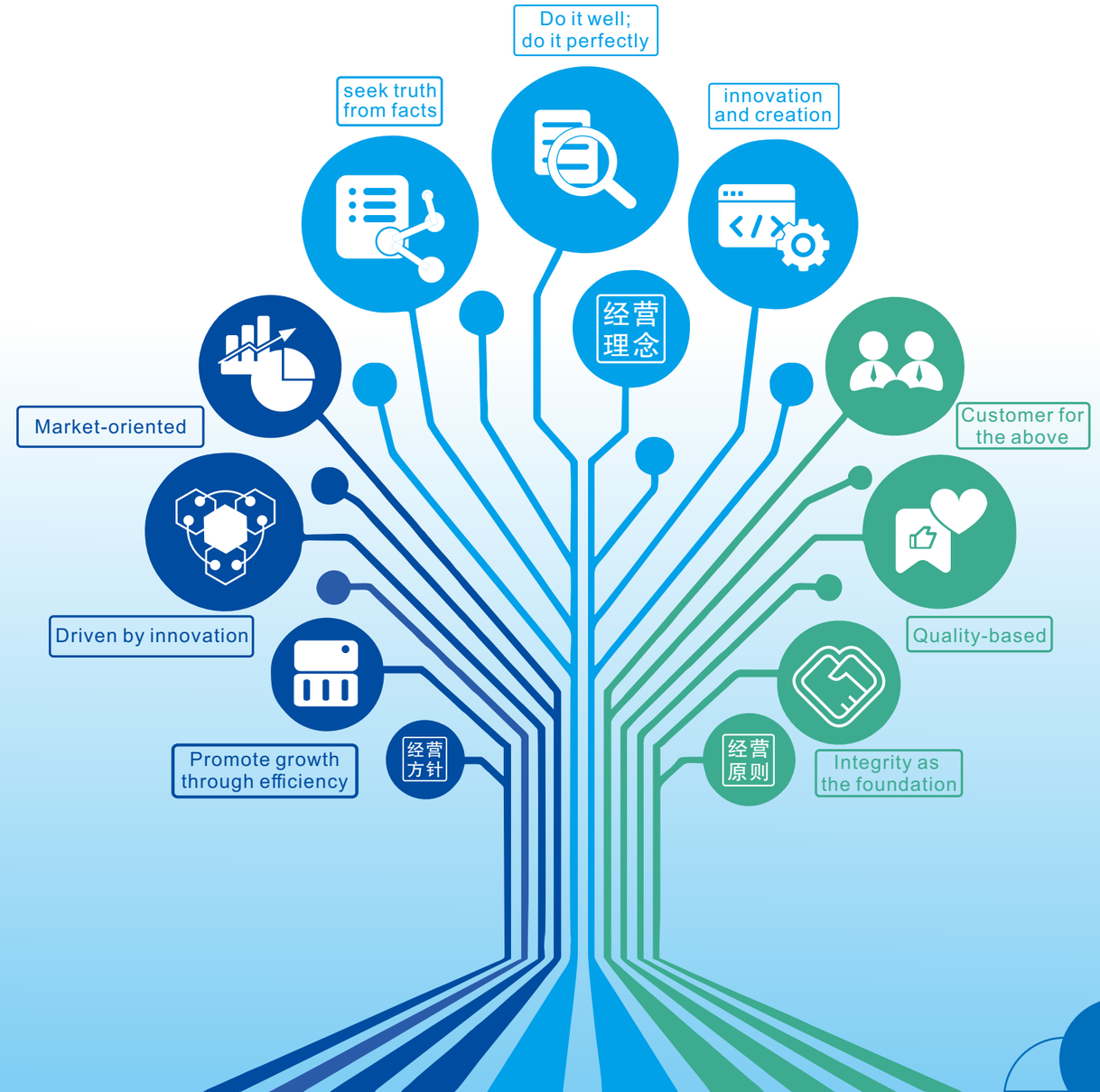
ENTERPRISE CORE



Part one:Company profile

Shenzhen Yiestar Technology Co., Ltd. focuses on global market promotion, overseas sales and customized product development.Our professional team is composed of senior engineers with more than 15 years of rich experience in international project management and product research and development.We cover a complete product portfolio including smart PDU, hybrid inverters and ESS energy storage products, providing personalized design, technical customization and one-stop system solutions for global.**Dongguan Xineng Technology Co., Ltd.** serves as our exclusive long-term OEM and ODM manufacturing base.The factory adopts standardized production and strict quality control system, and has obtained ISO quality management system certification, CE, RoHS, IEC and other international authoritative certifications.

The PDU product series independently researched, developed, produced, and sold by the company includes:

1 Basic PDU:

Standard PDU without remote monitoring functionality;

2 Metered PDU:

PDU with RS485 remote monitoring and metering functionality;

3 Smart PDU:

PDU with Ethernet remote monitoring functionality, where each output port can be remotely monitored and controlled.

Smart PDUs can be divided into 4 series based on functional requirements:

Series A	Monitors total power consumption, with no monitoring or control at the branch level;
Series B	Monitors total power consumption, with both monitoring and control at the branch level;
Series C	Monitors total power consumption, with no monitoring but control at the branch level;
Series D	Monitors total power consumption, with monitoring but no control at the branch level;

4 High-power PDU:

5 ATS and STS Transfer Switches:

The company has passed ISO9001 Quality Management System certification. Our products have obtained CCC, ETL and other certifications, and 100% of all products undergo strict inspection before shipment, including polarity checks, insulation resistance tests, high-voltage tests, functional tests, and aging tests. This ensures that our products comply with and meet the requirements of various standards such as CCC, CE, RoHS, CB, VDE, UKCA, GS, UL, and ETL.

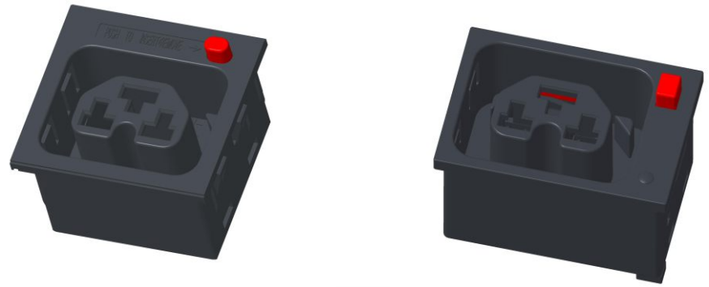
The company consistently adheres to the business philosophy of "seeking truth from facts, focusing on specialization and excellence, and embracing innovation and creation." We have successfully provided safe and reliable PDU/ATS power distribution products for data centers in sectors such as finance, government, education, mining, and large to medium-sized enterprises, earning widespread acclaim in the industry.

Part Two: Product Highlights

1

Based on the professional attributes of the C13, C15, C19, and C21 standards (all compliant with the IEC 60320 international standard, focusing on scenarios such as data centers and industrial equipment rooms), a C59 four-in-one compatible socket solution has been developed to adapt to professional environments. Additionally, to prevent misoperation, the C59 socket is equipped with a device to prevent power cable detachment, effectively addressing three core challenges: power conflict, space occupancy, and safety protection.

As shown in the figure:



2

Considering that PDU (Power Distribution Unit) meters play a central role in power distribution and electricity monitoring in scenarios such as data centers and industrial equipment rooms, the integration of sensor-expanded I/O interfaces with PDU meters has been proposed. By connecting an external multi-channel sensor interface box via the I/O interface, this solution addresses the challenges of multi-dimensional data collection and centralized management for sensors in specific micro-environment monitoring applications.

As shown in the figure:

3

Taking into account the high demand for space utilization in scenarios such as data center cabinets with a 1U width structure, as well as the core functional requirement of smart iPDUs to "monitor and control each output unit individually," we have developed a series of smart iPDUs with a width of only 1U. This solution focuses on resolving the conflict between "compact space and functional integration," forming a 1U smart PDU solution that combines precise monitoring, independent control, and spatial adaptability.

As shown in the figure:

4

Given the power distribution requirements in mining sites and high–power AI computing facilities, which are characterized by high single–device power consumption, dense equipment layout, and 24/7 full–load operation, the demands for PDU's "power carrying capacity, stability, and fault self–healing capabilities" far exceed those of traditional data centers. To address these challenges, we have developed two product series based on three–phase five–wire/three–wire technology: the "High–Power Standard PDU" (meeting basic power supply needs) and the "Smart iPDU" (fulfilling precise monitoring and control requirements), both tailored to the specific pain points of such scenarios.

The products have already obtained ETL certification and have achieved broad market coverage both domestically and internationally. They have not only received consistent customer acclaim but have also established differentiated competitiveness in high–standard markets such as North America and Europe.

(Within the "Smart iPDU" series, to meet the metering or control needs of various output sockets/terminals, multiple auxiliary boards have been developed, including single–phase output, three–phase three–wire output, three–phase four–wire output, leakage detection, and neutral current monitoring.)

As shown in the figure:

5

PDU Meter Software Functionality:

- To meet diverse customer usage scenarios, the PDU supports multiple upgrade methods. It allows both local batch upgrades and local/remote individual upgrades, as well as dual–bank (A/B side) upgrades and incremental upgrades. In the event of a power outage during an upgrade, the process can resume automatically once power is restored. Furthermore, if firmware is lost due to unforeseen circumstances, the PDU meter head supports firmware recovery via a serial port, reducing device maintenance costs and improving maintenance efficiency.
- The firmware upgrade mechanism prioritizes security, making it suitable for high–security environments. It incorporates triple–layer protection, including CRC verification, AES encryption, and firmware signature authentication, ensuring robust security throughout the upgrade process.
- The device supports a wide range of communication protocols, including several security–focused protocols. This enables customers to meet most security requirements even in highly demanding environments, ensuring both functionality and protection are comprehensively addressed.

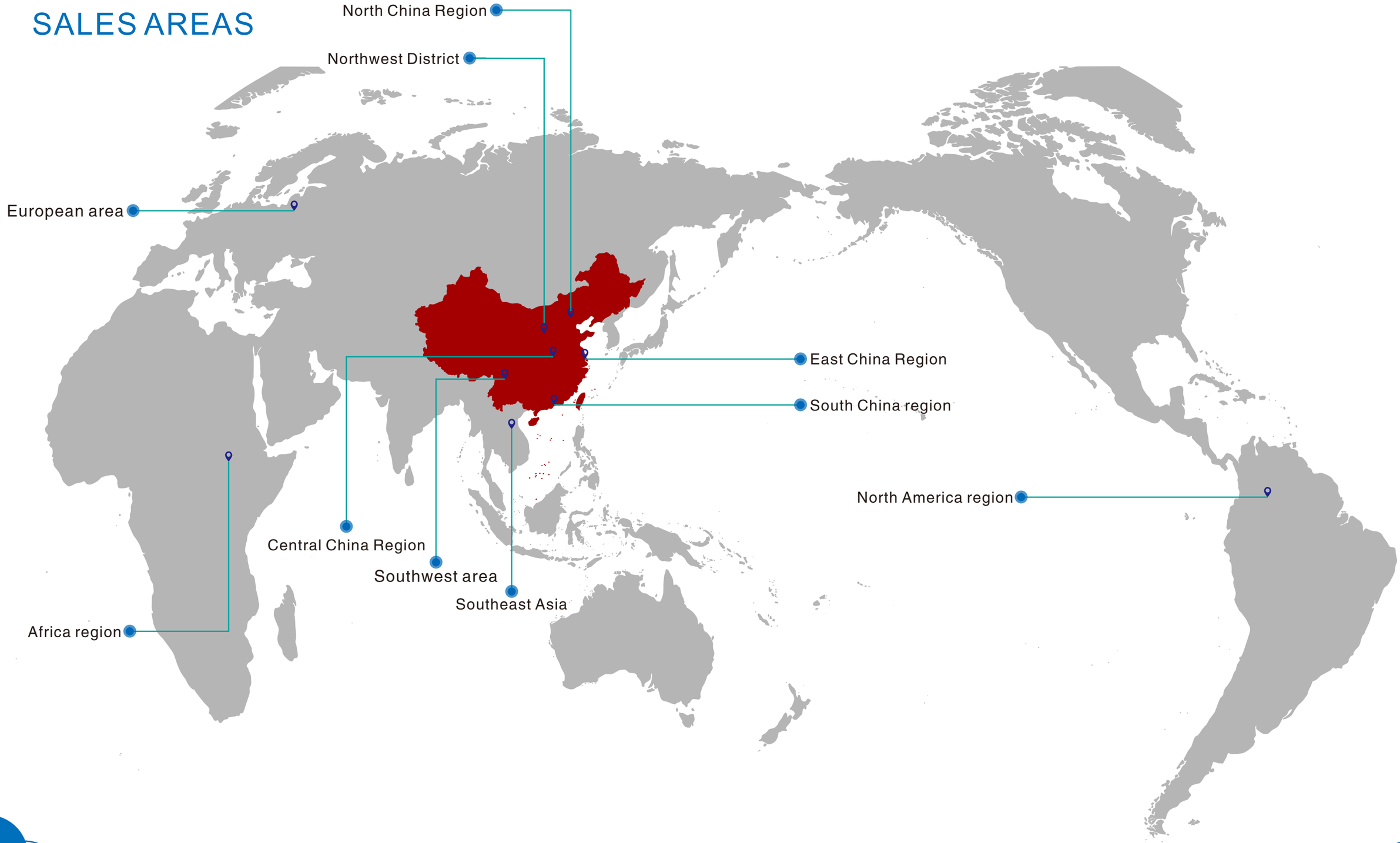
6

Considering the critical importance of product testing for PDU devices, our company has independently developed a "Product Testing Traceability System." This system ensures that every product shipped has undergone a standardized and rigorous testing process, truly achieving "traceability for every unit" in the testing phase and effectively addressing the issue of "missed product tests."

As shown in the figure:

Part three: Sales Area

SALES AREAS



Part four: Product Introduction

1 Basic PDU

Basic PDU overview

The Basic PDU series power distribution units are suitable for electrical, communication, control, and other cabinet equipment, and are widely used in large, medium, and small data centers, office environments, dispatch centers, control centers, and similar scenarios.

The unit's housing is made of T5–grade eco–friendly profiles with a black powder–coated surface. Internally, it features a high–purity copper bar structure crafted with integrated/automated welding technology, offering low resistance and excellent conductivity. This design ensures an aesthetically pleasing appearance, reliable structure, controlled temperature rise, and compliance with RoHS standards.

Designed in accordance with IEC standards, the product supports both horizontal and vertical installation in standard cabinets. It also meets customized development requirements for partners, offering configurable functional modules such as transparent open wiring boxes, temperature detection modules, air/hydraulic switch assemblies, meter modules, socket modules, surge protection modules, fuses, and more. The series supports a variety of application scenarios, including single–phase AC, three–phase AC, 240V high–voltage DC, and 336V high–voltage DC.

Input parameters	Input Plug	Optional: UK, China, US standard, industrial plug, etc.
	Cable	Optional: RVV, AWG, etc.
	Rated Current	Maximum: 630A
	Rated Voltage	100–250VAC, 380VAC, DC: –48V, 240V, 334V
	Phase Sequence	L1\L2\L3 \N \PE
	Frequency	50/60Hz
	Surge Protection Module	Optional: 10KA, 15KA, 20KA, 40KA
	Optional Functional Modules	Indicator light, circuit breaker, switch, USB, TYPE–C, etc.
Output parameters	Output Socket	Optional: UK, China, US standard, aviation plug, IEC C13, IEC C19, etc.
Physics mechanics	Dimensions	Customizable
	Housing Material	Aluminum profile or sheet metal, with profile thickness ⩾1.5mm or sheet metal thickness ⩾1.2mm
	Installation Method	Rack–mounted
	Plastic Material	Pa6 GF 30 V0, etc., resistant to 850° C glow wire
environment	Altitude	0–3,000m
	Operating/Storage Temperature	–10–50° C / –25–85° C
	Humidity	5–95% RH (non–condensing)

BASIC PDU PRODUCTS

Detailed Specifications:

- Input Voltage: 380–415VAC 50/60Hz
- Input Current: 3×63A
- Output Voltage: 200–250VAC
- Output Configuration: L1: BS1316 Standard – UK Standard Socket (90°, 8 ports) L2: DIN49440 Standard German Standard Socket (90° , 8 ports) L3: NEMA5-15R Standard – US Standard Socket (8 ports)
- Product Housing: Industrial–grade high–quality aluminum profile (Width W = 1.5U, Material Thickness T ⩾ 1.5mm), offering excellent heat dissipation. The surface is finished with black sand–textured powder coating, ensuring a smooth texture and an elegant appearance.
- Input Method: Industrial–grade ring terminal junction box. The PDU is directly powered from the upstream distribution equipment,
- Internal Connections: Sockets are interconnected using continuous solid copper bars, ensuring high current–carrying capacity and maintaining full output functionality even if any individual socket fails.
- Control Function: Equipped with a 3–pole air circuit breaker (C63A).

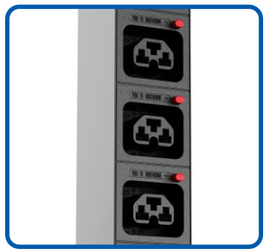
Detail display:

BASIC PDU PRODUCTS

Detailed Specifications:

- Input Voltage: 200–250VAC 50/60Hz
- Input Current: 32A
- Output Voltage: 200–250VAC
- Output Configuration: IEC320 Standard C39/C59 Anti-Disconnect Sockets (31 ports)
- Product Housing: Industrial-grade high-quality aluminum profile (Width W = 1U, Material Thickness T ⩾ 1.5mm), providing excellent heat dissipation. The surface features a black sand–textured powder coating finish, ensuring a smooth texture and an elegant appearance.
- Input Method:IEC60309 Industrial Plug (32A 250VAC 2P+E) with RVV3*6mm² cable
- Internal Connections: Sockets are interconnected using continuous solid copper bars, ensuring high current–carrying capacity and maintaining full output functionality even if any individual socket fails.
- Control Function: Equipped with a 1–pole air circuit breaker (C32A/1P) and a removable transparent protective cover. The cover prevents accidental power disruption and allows clear visibility of the circuit breaker's technical parameters.
- Display Function: Hot–swappable indicator light

Detail display:



BASIC PDU PRODUCTS

Detailed Specifications:

- Input Voltage: 380–415VAC 50/60Hz
- Input Current: 3 × 32A
- Output Voltage: 200–250VAC
- Output Configuration: GB1002 Standard 10A Chinese Standard Flat–pin Sockets (24 ports) GB1002 Standard 16A Chinese Standard Flat–pin Sockets (6 ports)
- Product Housing: Industrial–grade high–quality aluminum profile (Width W = 1.25U, Material Thickness T ⩾ 1.5mm), ensuring excellent heat dissipation. The surface is finished with black sand–textured powder coating, providing a smooth texture and an elegant appearance.
- Input Method: Industrial–grade ring terminal junction box, directly powered from the upstream distribution equipment. This design reduces connection points and enhances safety and reliability.
- Internal Connections: Sockets are interconnected using continuous solid copper bars, ensuring high current–carrying capacity and maintaining full output functionality even if any individual socket fails.
- Protection Function: Equipped with 3 hot–swappable surge protection modules.

Detail display:

2 Metering PDU

Overview of the metering PDU

A metered PDU is a Power Distribution Unit equipped with measurement and monitoring capabilities. It locally displays input voltage (V), current (A), active power (kW), frequency (Hz), power factor, and energy consumption (kWh) via LCD/LED screens, while providing reliable power distribution. The PDU offers power utilization data, enabling data center managers to safely install new equipment in cabinets and make informed decisions based on the actual IT environment scale to reduce the total cost of ownership.

The metered PDU features an RS485 communication interface, allowing the data center management system to read data in real–time and perform corresponding operational actions. The main module of the metered PDU supports hot–swapping, and its output control module can be replaced without affecting the power supply to the output ports, facilitating on–site maintenance.

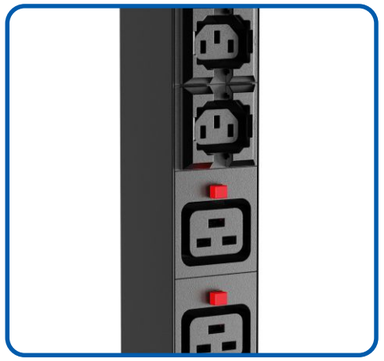
Feature Description	Energy Measurement	Voltage, Current, Active Power, Reactive Power, Apparent Power, Power Factor, Frequency, Active Energy, Reactive Energy
	Full–Circuit Measurement	Yes
	Per–Phase Measurement	Yes
	Per–Outlet Measurement	No
	Measurement Accuracy	Accuracy Class ±1% (Voltage, Current, Power, Energy)
	Per–Outlet Control	No
	Trip Monitoring	No (Customizable)
	Display	LCD
	485 Communication	Two RJ45 Terminals
	Ethernet Communication	No
	Communication Protocol	Modbus–RTU
Input Parameters	Input Plug	Optional (e.g., British Standard, Chinese Standard, American Standard, Industrial Plugs)
	Cable	Optional (e.g.,RVV, AWG)
	Rated Current	Max: 630A
	Rated Voltage	100–250VAC, 380VAC; DC: –48V, 240V, 334V
	Phase Sequence	L1\L2\L3 \N \PE
	Frequency	50 / 60 Hz
	Surge Protection Module	Optional (10kA, 15kA, 20kA, 40kA)
	Optional Function Modules	Indicator Light, Circuit Breaker, Switch, USB, Type–C, etc.
Output Parameters	Output Socket	Optional (e.g., British Standard, Chinese Standard, American Standard, Aviation Plug, IEC C13, IEC C19)
Physical / Mechanical	lualanseal Abraug	Optional
	Housing Material	Aluminum Profile or Sheet Metal (Profile thickness ⩾1.5mm, Sheet metal thickness ⩾1.2mm)
	Mounting Method	Rack Mount
	Plastic Material	Pa6 GF30 V0, etc., Glow–wire resistance 850° C
Environmental	Altitude	0 – 3,000m
	Operating Temperature Storage Temperature	–10–50° C / –25–85° C

METERING PDU PRODUCTS

Detailed Specifications:

- Input Voltage: 200–250VAC, 50/60Hz
- Input Current: 32A
- Output Voltage: 200–250VAC
- Output Configuration:
  IEC 320 standard C13 locking socket (24 pcs)
  IEC 320 standard C19 locking socket (8 pcs)
- Product Housing: Industrial-grade high-quality aluminum profile (width W = 1U, material thickness T ≥ 1.5mm) with excellent heat dissipation. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial plug IEC 60309 (32A 250VAC 2P+E) + RVV 3×6mm² cable.

Detail display:

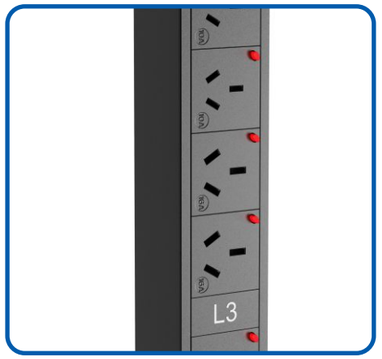


METERING PDU PRODUCTS

Detailed Specifications:

- Input Voltage: 380–415VAC, 50/60Hz
- Input Current: 3 × 63A
- Output Voltage: 200–250VAC
- Output Configuration:
  GB1002 standard 10A Chinese three-pin flat locking socket (24 pcs)
  GB1002 standard 16A Chinese three-pin flat locking socket (6 pcs)
- Product Housing: Industrial-grade high-quality aluminum profile (width W = 1.25U, material thickness T ≥ 1.5mm) with excellent heat dissipation. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial-grade ring terminal terminal block. The PDU is powered directly from the upstream distribution equipment, reducing connection points for enhanced safety and reliability.
- Internal Connection: Outlets are connected through continuous solid copper busbars, offering high current-carrying capacity and ensuring that the failure of any single outlet does not affect the output of the entire PDU.
- Monitoring Function: Hot-swappable RS485 dual-serial-port three-phase meter for local/remote monitoring of parameters such as voltage, current, power, energy, and power factor of the entire PDU. Alarm thresholds can be set for early warning and risk control.

Detail display:



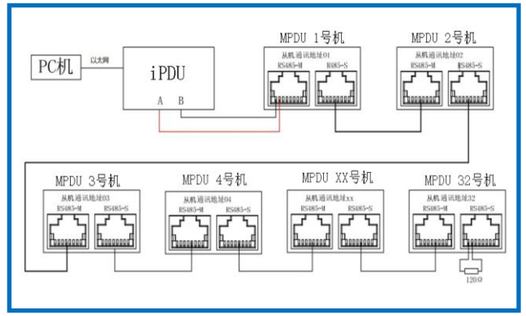
3 Intelligent PDU

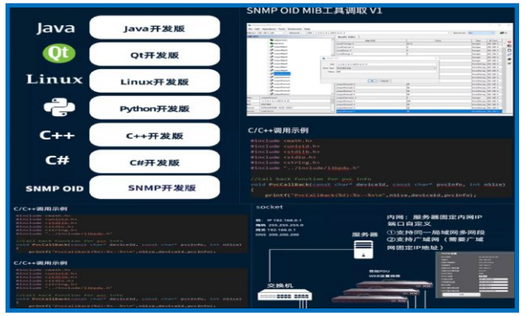
Smart type.PDU

Smart PDUs can be divided into 4 series according to functional needs, namely, Series A for comprehensive monitoring, Series B for comprehensive monitoring of the and branch monitoring, Series C for comprehensive monitoring of the row and branch control, and Series D for comprehensive monitoring of the row and branch monitoring control. For details of the functional differences please refer to the "Parameter List" of the Smart PDU. The input voltage (V), current (A), active power (kW), frequency (Hz) power factor, and electricity (kWh) can be displayed locally through the LCD, and reliable power distribution; remote monitoring and control; it also has 4 sensor interfaces built-, and an external sensor box can be added to expand the number of sensors; the main module of the Smart PDU can be hot-swapped, and its main control module be replaced without affecting the power supply of the output bit, which is convenient for on-site maintenance.

Intelligent PDU characteristics

1. It can achieve daisy chain with metering PDU (485), which will not need serial port server, this will Save costs and reduce equipment size
2. The controller will not bulge over the chassis, which looks more nice and uses better.
3. It has three sensor interfaces on the controller, also you can connect a external expansion sensor box, to connect more sensors if in need
4. Compact structure, small number of internal connections by wires, better heat dissipation,
5. Rich internet protocals, like the newest SSHv2, MQTT and so on, it can meet different cus request in second development.



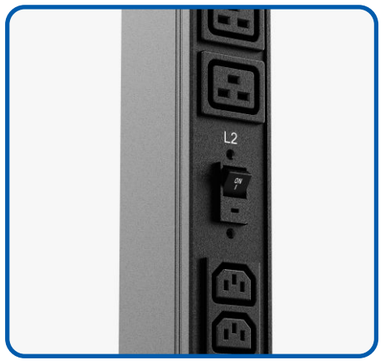


SMART IPDU-A SERIES PRODUCTS

Detailed Specifications:

- Input Voltage: 380–415VAC, 50/60Hz
- Input Current: 3 × 32A
- Output Voltage: 200–250VAC
- Output Configuration: IEC 320 standard C13 outlet (36 pcs)
  IEC 320 standard C19 outlet (6 pcs)
- Product Housing: Industrial-grade high-quality aluminum profile (width W = 1.25U, material thickness T ≥ 1.5mm) with excellent heat dissipation. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial plug IEC 60309 (32A 380VAC 3P+N+E) + RVV 5×6mm² cable.
- Internal Connection: Outlets are connected through continuous solid copper busbars, offering high current-carrying capacity and ensuring that the failure of any single outlet does not affect the output of the entire PDU.
- Monitoring Function: Hot-swappable intelligent three-phase meter (with 1 network port, 2 RS485 serial ports, and 1 T/H interface). It supports local/remote monitoring of parameters such as voltage, current, power, energy, and power factor of the entire PDU. Alarm thresholds can be configured for early warning and risk control. The meter head is designed to be fully embedded, sitting flush with the outlets for a clean and streamlined appearance.
- Control Function: 3 × hydraulic magnetic circuit breaker (C16A/1P).

Detail display:



SMART IPDU-A SERIES PRODUCTS

Detailed Specifications:

- Input Voltage: 200-250VAC 50/60Hz
- Input Current: 63A
- Output Voltage: 200-250VAC
- Output Configuration:
  GB1002 Standard 10A Chinese Three-pin Flat Locking Socket (24 units)
  Gb1002 Standard 16A Chinese Three-pin Flat Locking Socket (8 units)
- Product Housing: Industrial-grade high-quality aluminum profile (Width W = 1.25U, Material Thickness T ≥ 1.5mm), offering excellent heat dissipation. The surface features a black textured spray coating, presenting a smooth, flat grain and an aesthetically pleasing appearance.
- Input Method: Industrial-grade ring terminal block. The PDU draws power directly from the upstream distribution equipment, minimizing connection points for enhanced safety and reliability.
- Internal Connection: All sockets are interconnected via a continuous solid copper busbar, ensuring high current-carrying capacity. This design guarantees that a failure of any individual socket will not affect the output of the entire PDU.
- Monitoring Function: Equipped with a hot-swappable intelligent single-phase meter (featuring 1 network port, 2 RS485 serial ports, and 1 temperature/humidity T/H interface). It enables local/remote monitoring of the entire PDU's parameters, including voltage, current, power, energy, and power factor. Alarm thresholds can be set for early warnings and proactive risk control.

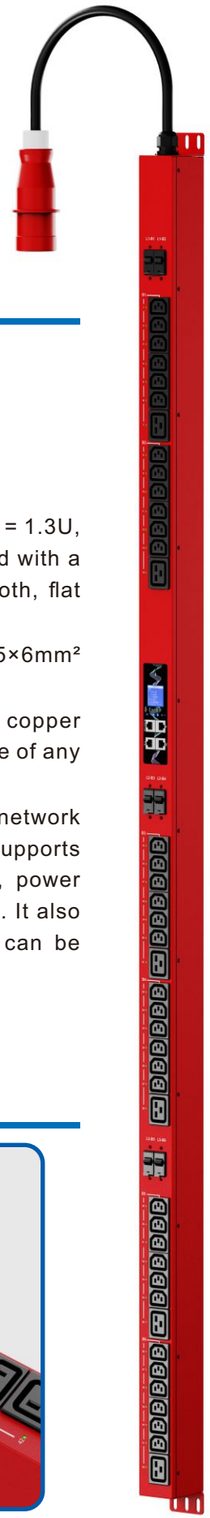
Detail display:

SMART IPDU-BCD SERIES PRODUCTS

Detailed Specifications:

- Input Voltage: 380–415VAC, 50/60Hz
- Input Current: 3 × 32A
- Output Voltage: 200–250VAC
- Output Configuration: IEC 320 standard C13 outlet (36 pcs)
  IEC 320 standard C19 outlet (6 pcs)
- Product Housing: Industrial-grade galvanized steel sheet (SGCC) (Width W = 1.3U, Material Thickness T ≥ 1.2mm), robust and durable. The surface is finished with a black (or blue/red/yellow, etc.) textured spray coating, presenting a smooth, flat grain and an aesthetically pleasing appearance.
- Input Method: Industrial plug IEC 60309 (32A 380VAC 3P+N+E) + RVV 5×6mm² cable.
- Internal Connection: Outlets are connected through continuous solid copper busbars, offering high current-carrying capacity and ensuring that the failure of any single outlet does not affect the output of the entire PDU.
- Monitoring Function: Hot-swappable intelligent three-phase meter (with 1 network port, 2 RS485 serial ports, and 1 Temperature/Humidity T/H interface). It supports local/remote monitoring of parameters (voltage, current, power, energy, power factor, etc.) for the entire PDU as well as for each individual branch circuit. It also enables remote on/off control of each branch circuit. Alarm thresholds can be configured for early warning and risk control.
- Control Function: 6 × Hydraulic-magnetic circuit breaker (C16A/1P).

Detail display:



SMART IPDU-BCD SERIES PRODUCTS

Detailed Specifications:

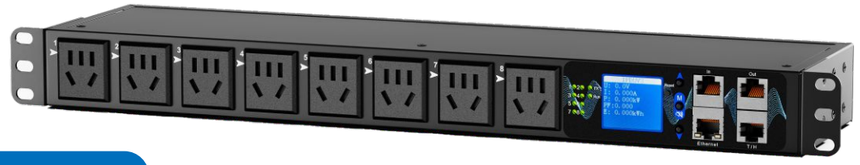
- Input Voltage: 380–415VAC, 50/60Hz
- Input Current: 3 × 32A
- Output Voltage: 200–250VAC
- Output Configuration:
  IEC 320 standard C13 locking outlet (30 pcs)
  IEC 320 standard C19 locking outlet (6 pcs)
- Product Housing: Industrial-grade high-quality aluminum profile (Width W = 1.25U, Material Thickness T ≥ 1.5mm) with excellent heat dissipation. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial plug IEC 60309 (32A 380VAC 3P+N+E) + RVV 5×6mm² cable.
- Internal Connection: Outlets are connected through continuous solid copper busbars, offering high current-carrying capacity and ensuring that the failure of any single outlet does not affect the output of the entire PDU.
- Monitoring Function: Hot-swappable intelligent three-phase meter (with 1 network port, 2 RS485 serial ports, and 1 Temperature/Humidity T/H interface). It supports local/remote monitoring of parameters such as voltage, current, power, energy, and power factor for both the entire PDU and each individual branch circuit. It also enables remote control of each branch. Alarm thresholds can be configured for early warning and risk control.

Detail display:

SMART IPDU-BCD SERIES PRODUCTS

Detailed Specifications:

- Input Voltage: 200-250VAC, 50/60Hz
- Input Current: 16A
- Output Voltage: 200-250VAC
- Output Configuration:
  GB2099 standard triple-flat 5-pin socket-outlet (8 units)
- Product Housing: Industrial-grade galvanized steel sheet (SGCC) (Width W = 1U, Material Thickness T ≥ 1.0mm), robust and durable. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: IEC 60320 standard C20 inlet.
- Internal Connection: All socket-outlets are interconnected via a continuous solid copper busbar, ensuring high current-carrying capacity. This design guarantees that a failure of any individual socket-outlet will not affect the output of the entire PDU.
- Monitoring & Control Function: Equipped with an intelligent single-phase meter (featuring 1 network port, 2 RS485 serial ports, and 1 temperature/humidity T/H interface). It enables local/remote monitoring of the entire PDU's parameters (voltage, current, power, energy, power factor, etc.) as well as monitoring of each individual branch circuit. Remote on/off control for each branch is also supported. Alarm thresholds can be configured for early warning and proactive risk control.



Detail display:

Web page browsing

XINENMAX Dongguan Xineng Technology

admin| No Alarm| Logout| 2026/01/23 21:50 |English

Status History Outlet Network System

Host PDU Status

Choose # Host Config

Info

Model	Version
IPDUV3-H-Work-12-16	0.0.56

Real-Time Data

Voltage	Current	Active Power	Power Factor	Active Energy	Carbon Emissions	Frequency
220.6V	0.020A	0.002kW	0.453	0.734kWh	0.576kg	50.043Hz
Normal	Normal					

Sensor

Temperature 1	Humidity 1	Temperature 2	Humidity 2	Temperature 3	Humidity 3	Temperature 4	Humidity 4
16.3℃	51.4%RH	-	-	-	-	-	-
Normal	Normal	-	-	-	-	-	-

IO Sensor 1	IO Sensor 2	IO Sensor 3	IO Sensor 4
-	-	-	-

XINENMAX Dongguan Xineng Technology

admin| No Alarm| Logout| 2026/01/23 21:50 |English

Status History Outlet Network System

Host PDU Outlet Operate

Choose # Host Interval Settings Batch : None

No.	Name	Vol.(V)	Cur.(A)	Power(kW)	Energy(kWh)	Alarm Status	State	Action		
1	Outlet1	219.5	0.02	0.002	0.432	Normal		ON	Config	Apply
2	Outlet2	219.5	0.00	0.000	0.021	Normal		OFF	Config	Apply
3	Outlet3	219.9	0.00	0.000	0.259	Normal		ON	Config	Apply
4	Outlet4	219.9	0.00	0.000	0.000	Normal		ON	Config	Apply
5	Outlet5	220.1	0.00	0.000	0.000	Normal		ON	Config	Apply
6	Outlet6	220.1	0.00	0.000	0.008	Normal		ON	Config	Apply
7	Outlet7	219.7	0.00	0.000	0.000	Normal		ON	Config	Apply
8	Outlet8	219.7	0.00	0.000	0.014	Normal		ON	Config	Apply

XINENMAX Dongguan Xineng Technology

admin| No Alarm| Logout| 2026/01/23 21:50 |English

Status History Outlet Network System

Outlet Group Control

No.	Name	Number of Outlets	Action	
1	Group 1	0	OFF	Add Apply
2	Group 2	0	OFF	Add Apply
3	Group 3	0	OFF	Add Apply
4	Group 4	0	OFF	Add Apply
5	Group 5	0	OFF	Add Apply
6	Group 6	0	OFF	Add Apply
7	Group 7	0	OFF	Add Apply
8	Group 8	0	OFF	Add Apply
			OFF	Apply

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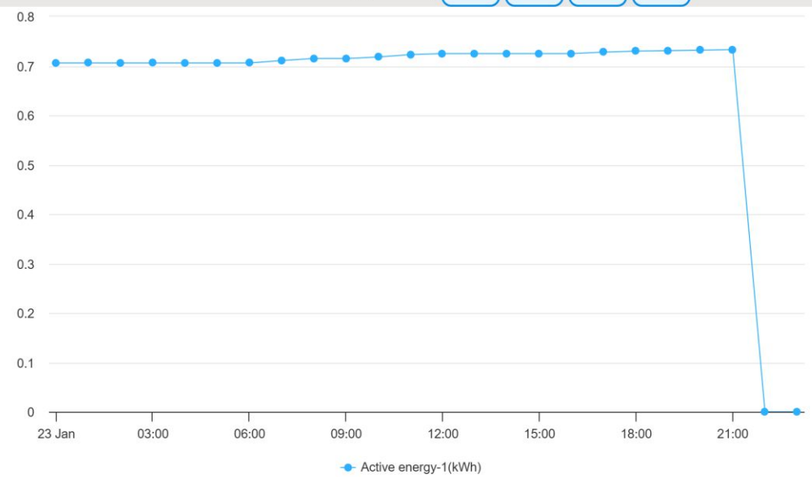
admin| No Alarm| Logout| 2026/01/23 21:50 |English

Status History Outlet Network System

Host-24-Hour Curve

Date Search 2026/01/23 Host Search Clear Next > < Prev



Intelligent iPDU parameter list

Functional Items	Product series			
Features & Functions	**Type A**	**Type B**	**Type C**	**Type D**
Measures Voltage, Current, Active Power, Reactive Power, Apparent Power, Power Factor, Active Energy, Reactive Energy, Frequency	●	●	●	●
Total Circuit Metering	●	●	●	●
Per–Phase Metering	●	●	●	●
Per–Outlet Metering		●		●
Metering Accuracy ±1% (Voltage, Current, Power, Energy)	●	●	●	●
Per–Outlet Control			●	●
Trip Monitoring	●	●	●	●
One Combined Temp & Humidity Sensor	●	●	●	●
Display: LCD	●	●	●	●
485 Communication (Modbus): Two RJ45 Terminals	●	●	●	●
Ethernet Communication (Network): 10/100 Mbit/s Auto–negotiation	●	●	●	●
Communication Protocols: TCP, UDP, ICMP, IGMP, ARP, IPv4, IPv6, DHCP, DNS, HTTP/HTTPS, SSHv2, SNMPv1/v2c/v3, SMTP/SMTPS, AutoIP, Syslog, NTP, MQTT/MQTTS, Modbus TCP/RTU, TFTP, TLSv1.2, AES128, ECC, RSA2048, etc.	●	●	●	●
USB Port	●	●	●	●
Digital/Analog Input/Output Channels: 3	●	●	●	●
Expandability: Supports one expansion module	●	●	●	●
Input Parameters				
Input Plug: Optional (e.g., British Standard, Chinese Standard, American Standard, Industrial Plug)	●	●	●	●
Cable: Optional (e.g., RVV, AWG)	●	●	●	●
Rated Current: Max: 400A	●	●	●	●
Rated Voltage: 250VAC, 380VAC, DC: –48V, 240V, 334V	●	●	●	●
Phase Sequence: L1\L2\L3\N\PE	●	●	●	●
Frequency: 50/60Hz	●	●	●	●
Surge Protection Module: Optional, 10kA, 15kA, 20kA, 40kA	●	●	●	●
Optional Function Modules: Indicator light, Circuit breaker, Switch, etc.	●	●	●	●
Output Parameters				
Output Socket: Optional (e.g., British Standard, Chinese Standard, American Standard, Aviation Plug, IEC C13, IEC C19, Three–phase Five–wire/Three–wire Terminal Block, etc.)	●	●	●	●
Physical / Mechanical				
Dimensions: Optional	●	●	●	●
Housing Material:Aluminum Profile or Sheet Metal (Profile thickness ⩾1.5mm, Sheet metal thickness ⩾1.2mm)	●	●	●	●
Mounting Method: Rack Mount	●	●	●	●
Plastic Material: PA6 GF30 V0, etc., Glow–wire resistance 850° C	●	●	●	●
Environmental				
Altitude: 0 – 3,000m	●	●	●	●
Operating Temperature / Storage Temperature: –5 to 50° C / –15 to 85° C	●	●	●	●
Humidity: 5 to 95% RH (non–condensing)	●	●	●	●

4 High–power PDU

Overview of high–power PDU

High–Power PDU (Power Distribution Unit) is a power distribution and management device specifically designed for high–power/ultra–high–power scenarios. Its core function is to safely and stably distribute high–voltage or main circuit power to multiple high–power devices, while providing protections such as overload, short–circuit, and remote monitoring. It serves as a critical node in the equipment's power system. High–power PDUs and low–power PDUs are relatively similar in functionality and design, and also come in basic and intelligent types. However, due to differences in application scenarios and requirements, they are not entirely the same. The following is a detailed analysis of their main differences:

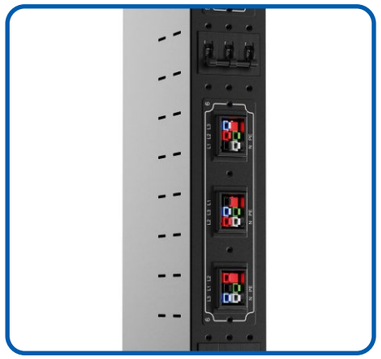
Primary Parameters	Low–Power PDU	High–Power PDU
Output Parameters	Wide variety of equipment, broad power range	Relatively fixed equipment, single high power, mostly three–phase five–wire/three–wire output
Input Parameters	Input current range: 10A 125A	Input current range: 63A 630A
Protection Parameters	At least dual power supply paths, larger redundancy in outlet operation	Single power supply path, outlets operate at full load
Monitoring Parameters	Higher level of intelligence, more detailed monitoring	Overall monitoring functions are less comprehensive and detailed

HIGH-POWER PDU-BASIC MODEL PRODUCT

Detailed Specifications：

- Input Voltage: 380–480VAC, 50/60Hz
- Input Current: 3 × 150A
- Output Voltage: 380–480VAC
- Output Configuration: Anderson Powerpole P34 Terminal – L1/L2/L3/N/PE (24 ports)
- Product Housing: Industrial-grade galvanized steel sheet (SGCC) (Width W = 1.8U, Material Thickness T ≥ 1.2mm), robust and durable. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial-grade ring terminal block. The PDU draws power directly from the upstream distribution equipment, minimizing connection points for enhanced safety and reliability.
- Internal Connection: Standard copper lug connections.
- Control Function: 8 × Hydraulic-magnetic circuit breaker (32A/3P).

Detail display:

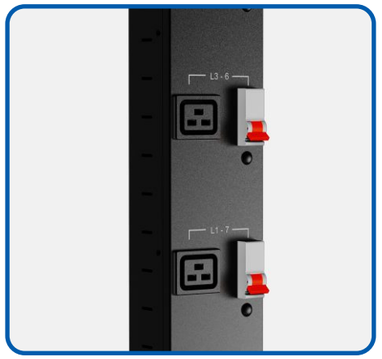


HIGH-POWER PDU-BASIC MODEL PRODUCT

Detailed Specifications:

- Input Voltage: 380–415VAC, 50/60Hz
- Input Current: 3 × 100A
- Output Voltage: 200–250VAC
- Output Configuration:
  IEC 320 standard C19 socket (11 pcs)
  Gb1002 standard 10A Chinese three-pin flat socket (1 pc)
- Product Housing: Industrial-grade galvanized steel sheet (SGCC) (Width W = 2.1U, Material Thickness T ≥ 1.2mm), robust and durable. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Industrial-grade ring terminal block. The PDU draws power directly from the upstream distribution equipment, minimizing connection points for enhanced safety and reliability.
- Internal Connection: Standard copper lug connections.
- Control Function: 12 × Air circuit breaker (C20A/1P).

Detail display:



HIGH-POWER PDU-SMART TYPE PRODUCT

Detailed Specifications:

- Input Voltage: 380–480VAC, 50/60Hz
- Input Current: 3 × 250A
- Output Voltage: 200–277VAC / 380–480VAC
- Output Configuration: Anderson Powerpole P34 Terminal – L1/L2/L3/N/PE (21 ports)
- Product Housing: Industrial-grade galvanized steel sheet (SGCC) (Width W = 2.7U, Material Thickness T ≥ 1.2mm), robust and durable. The surface is finished with black textured spray coating, providing a smooth, even texture and a neat, aesthetically pleasing appearance.
- Input Method: Ring terminal block. The PDU draws power directly from the upstream distribution equipment, minimizing connection points for enhanced safety and reliability.
- Internal Connection: Standard copper lug connections.
- Monitoring Function: Hot-swappable intelligent three-phase meter (with 1 network port, 2 RS485 serial ports, and 1 Temperature/Humidity T/H interface). It supports local/remote monitoring of parameters such as voltage, current, power, energy, and power factor for both the entire PDU and each individual branch circuit. It also enables remote control of each branch. Alarm thresholds can be configured for early warning and risk control.
- Control Function: 7 × Air circuit breaker (C32A/3P).

Detail display:

5 ATS 、STS

ATS, STS changeover switch overview

ATS (Automatic Transfer Switch) and STS (Static Transfer Switch) are single–pole automatic switching devices, available in three capacities: 10A, 16A, and 32A.

In a dual–bus power supply system consisting of two AC power sources, ATS and STS undertake the core tasks of detection and switching, and are applied in high–end uninterrupted power supply fields that demand extremely high power reliability.

Application Scope

Computer rooms, internet data centers, telecommunications and financial data centers, industrial process control centers, etc.

Product Features

1. Key System Unit – Redundant Auxiliary Power Supply: The auxiliary power supply is designed with redundancy, ensuring the device continues to operate normally even in the event of a single power source failure.

2. Fully Digital (DSP) Control: Strong data processing capability enhances overall device reliability.

3. Advanced Power Failure Detection Method: Enables rapid identification of power outage faults.

4. Powerful Communication Functionality: Supports remote management via an SNMP card (optional accessory).

前面板 液晶显示

后背板 欧标插座

（2 位 C19+8 位 C13 欧标插座）

(4 位 C19+4 位 C13 欧标插座）

parameter list

Technical indicators

Item		（10A, 16A) Specification	（32A) Specification
Input	Input Source	Dual Input Sources	
	Input Configuration	1Φ+N+PE	
	Rated Voltage	220/230Vac	
	Rated Frequency	50/60Hz	
	Voltage Range	150-300Vac	
	Frequency Range	Rated Frequency+5Hz	
	Voltage Distortion	<10%	
Output	Power Factor	0.75~1.0leading or lagging	0.8~1.0leading or lagging
	Overload Capacity	125%，30min	
	Efficiency (100% linear load)	99%	98%
Switching	Stages	Two–stage	
	Auto Transfer Time	<6ms (Typical), <11ms (Maximum)	

Environmental Parameters

Item	Normal Range
Operating Temperature	–5–50℃
Storage Temperature	–15–85℃
Relative Humidity	5~95%，non–condensing
Altitude	3000m

Mechanical Parameters

Dimensions (H x W x D)	Weight	
	Standard Unit Weight	Weight with Optional Accessories
44mmx430mmx250mm(10A，16A)	4.5kg	5kg
84mmx430mmx340mm(32A)	5kg	6kg

Factory pictures

manufacturing workshop

Test machines

Qualifications

CE

ROHS

TLC reports

Software rights

Utility model patent

trademark

ETL

CCC

ISO

partner

海悟

安腾智联

泓帆智能

中兴

英维克

科安

南盾

艾特网能

科士达