

Apsimoon Electric Pte Ltd is a wholly owned subsidiary of Top Electric (Tianjin) Co., Ltd. The company is established to improve overseas supporting services and expand overseas markets, selectively aiming at the data center, small industrial automation, and telecommunications companies, that have strong demand for the high-performance IT equipment.



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Power You Can Trust

Rack Power Distribution Unit

PDU Products – Standard or Custom

PDU Varieties

Apismoon offers 5 different standard product categories ranging from a Basic PDU to heavily featured PDUs. The features include Circuit Breakers, Metering & Outlet Switching, Energy Metering, Surge Suppression and Environmental Monitoring capabilities. All metering results can be observed locally or through a variety of remote access methods.



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MPISM(ON

Provide life cycle service management

- Reliability
- On-Time Delivery
- Quality
- Uncompromising Safety



Product Family

■ Basic PDU

The Basic PDU accepts power through one input cord and provides power distribution through several power outlets. Many varieties of both the input plugs and output receptacles are available to mix and match to meet your exact needs. This product group does not offer metering, circuit breakers, local / remote monitoring or control.

Input Metered PDU

Current, voltage, electric energy and other electrical data at the PDU input can be monitored. This data can be and displayed locally or be uploaded through IP protocol to realize rack-level monitoring and billing-grade metering. In addition, the input metered PDU provides two temperature and humidity sensors to manage the cabinet's microenvironment.

Outlet Metered PDU

The outlet metered PDU realizes Voltage, Current, Watts and billing-grade metering for each outlet. The more intelligent NMC (network management controller) enables PDU to further integrate temperature, humidity, smoke and water leakage sensor functions and real-time alarm function.

Outlet Switched PDU

The outlet switched PDU realizes real-time control of each outlet. Authorized users can remotely power on, power off, restart of each outlet or a group\bank of outlets and real-time alarms.

Outlet Metered & Switched PDU

This type of PDU integrates all functions of the Outlet Metered PDU and Outlet Switched PDU.

Comparison of PDU Functions

FEATURES	BASIC	METERED	OUTLET METERED	OUTLET SWITCHED	OUTLET METERED & SWITCHED
Group	АМВ0	AMN1	AMN5	AMN2	AMN6
Display		V	v	✓	V
Daisy Chain		V	V	✓	V
Network Port		V	v	✓	V
USB Port			V	√	V
Breakers	V	V	v	✓	V
User Access		V	V	√	V
Environmental Mon		V	v	✓	V
Connectivity		V	V	√	✓
Power Measurements		V	v	✓	V
Measures Each Outlet			V		✓
Custom Alarms		V	V	✓	✓
Remote Outlet Control				√	V
Power Sequencing				✓	V

Basic PDU

The basic PDU has a highly flexible configuration scheme to meet the needs of our customers for basic IT equipment applications. The following table outlines the variety of input plugs and output receptacles available for the basic configuration PDU. Please contact us for special customization requirements.

FUCTION	STYLE	CURRENT	VOLTAGE	PHASE	WIRES	POWER	OUTLETS	PLUG	SKU
Basic	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMB051652G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(21)C13, (3)C19	IEC 60309 516P6	AMB061659G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(36)C13, (6)C19	IEC 60309 516P6	AMB061657G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMB053253G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(36)C13, (6)C19	IEC 60309 332P6	AMB053287G
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(36)C13, (6)C19	IEC 60309 532P6	AMB063288G

^{*} Vertically Mounted

Circuit breaker

Hydraulic-magnetic circuit breakers provide effective circuit safety protection. The properly sized breakers will quickly open a circuit due to overload IT load. The hydraulic-magnetic circuit breaker operation is not affected by environmental temperature. Note the last portion of this sentence is not on the brochure.

Hot plug Indicator

The hot plug LED is a safety feature that indicates when power is present on the output receptacles. The LED can be quickly replaced via the hot swap method so the data center can continue to operate during maintenance.

Aluminum alloy profile

Flexible mounting system

Slotted mounting brackets are integrated into the PDU allowing for fast and simple installation.

High-strength aviation aluminum material is adopted, which is safe and reliable while ensuring a lightweight design.

Product Features

■ Flexible Customization

The PDUs outlets and input plug/cord can be customized not only by outlet type and number according to customer's requirements, but also by outlet color, cord length and arrangement. Also, customers can choose functional modules based on their requirements, including circuit breakers, LED indicators, etc.

■ Fast Delivery

Apismoon has the ability to quickly respond to the customer's delivery needs thanks to our professional technical team, experienced production crew and U.S. warehousing program.

Strong R&D Capabilities

Apismoon has an experienced research and development team, which stays abreast of the latest PDU designs and the newest components available for both standard and custom products.

Front Panel

The PDU adopts a laser-cut panel to provide excellent mechanical strength and ensure a perfect fit to safely house live internal electrical circuits. A strong, well fitted front panel improves the PDU reliability and allows for customization flexibility.

Self-Locking Outlets

Self-locking receptacles are available for various applications to eliminate accidental unplugging.

Highly customized

The PDU can be highly customized, not only for any type and number of outlets, but also for a variety of functional combinations to meet the customer's exact needs, such as with or without self-locking receptacles and more.

Input Metered PDU

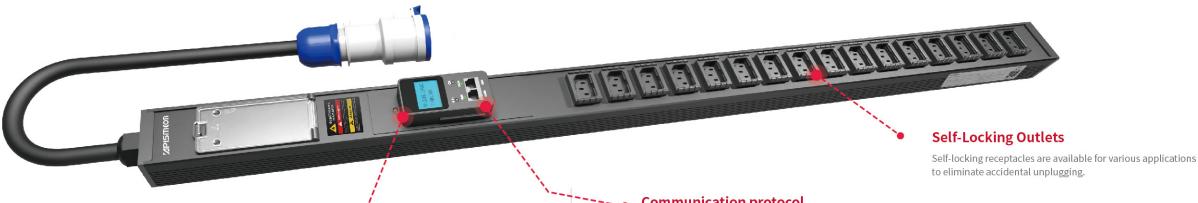
485 Input Metered PDU can monitor the total power at the input of the PDU, transmit data using Modbus 485 and display data locally and on the network and provide rack-level monitoring. The following is the basic configuration table.

FUCTION	STYLE	CURRENT	VOLTAGE	PHASE	WIRES	POWER	OUTLETS	PLUG	SKU
Switched	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMM151658G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(21)C13, (3)C19	IEC 60309 516P6	AMM161659G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(36)C13, (6)C19	IEC 60309 516P6	AMM161681G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMM153286G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(36)C13, (6)C19	IEC 60309 332P6	AMM153253G
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(36)C13, (6)C19	IEC 60309 532P6	AMM163288G

^{*} Vertically Mounted

485 Metered PDU Controller





The monitored total load current, total voltage, total power, and total electric energy status can be checked through the LCD interface and button; Customers can also look at the PDU display content and main performance parameters through the web page

LCD

Communication protocol

At present, the data center adopts DCIM (Data Center Infrastructure Management) to centrally manage power, cooling, and environmental factors across facilities and IT systems. Intelligent PDU supports SNMP V1\V2\V3, Telent, Https, SSH, and others protocol, and users can remotely manage PDU through their DCIM.

Input Nework metered PDU

Network Input Metered PDU can monitor the total power at the input of the PDU, transmit data using both Modbus 485 and Network then display data locally and on the network and provide rack-level monitoring. It has sensor ports that supports temperature, humidity, smoke, etc. The following is the basic configuration table.

FUCTION	STYLE	CURRENT	VOLTAGE	PHASE	WIRES	POWER	OUTLETS	PLUG	SKU
Network Metered	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMN151658G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(21)C13, (3)C19	IEC 60309 516P6	AMN161659G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(36)C13, (6)C19	IEC 60309 516P6	AMN161681G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMN153286G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(36)C13, (6)C19	IEC 60309 332P6	AMN153253G
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(36)C13, (6)C19	IEC 60309 532P6	AMN163288G

^{*} Vertically Mounted



Connectors can be customized in various models, including



The monitored total load current, total voltage, total power, and total electric energy status can be checked through the LCD interface and button; Customers can also look at the PDU display content and main performance parameters through the web page

Nework metered PDU Controller

LCD

Key parameters are displayed locally. Knowledge of the power parmeters has be shown to increase system uptime and reliability.

Network and RS 485 ports

The 10\100 ethernet port and RS485 port can realize a variety of networking configurations, providing the most effective networking solution. The Link port and RS485 ports can be configurated in a daisy chain manner that can m anage up to 32 PDUs through a single IP address.

Sensor Ports

Optional temperature and humidity sensors can be added to monitor the server microenvironment.

Hot-swap controller

In case the intelligent meter is accidentally damaged, it can be replaced by hot-swapping. Hot-swapping allows non-interrupted server operation during maintenance.

Communication protocol

At present, the data center adopts DCIM (Data Center Infrastructure Management) to centrally manage power, cooling, and environmental factors across facilities and IT systems. Intelligent PDU supports SNMP V1\V2\V3, Telent, Https, SSH, and others protocol, and users can remotely manage PDU through their DCIM.

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LCD

Outlet Metered PDU

The output electrical parameters can be measured and locally displayed for each output receptacle or user determined groups of outlets may be measured. The intelligent NMC enables the PDU to further integrate temperature and humidity, smoke and water leakage monitoring functions and carry out real-time early alarms.

Outlet Switched PDU

The outlet switched PDU realizes real-time control of each outlet based on monitoring the total power at the input of PDU. Authorized users can remotely power on, power off or restart of each outlet or a group/bank of outlets and carry out real-time early alarms.

FUCTION	STYLE	CURRENT	VOLTAGE	PHASE	WIRES	POWER	OUTLETS	PLUG	SKU
Switched	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMN251659G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(30)C13, (6)C19	IEC 60309 516P6	AMN261681G
	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMN253253G
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(30)C13, (6)C19	IEC 60309 532P6	AMN263288G
	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMN551659
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(30)C13, (6)C19	IEC 60309 516P6	AMN561681
МВО	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMN553253
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(30)C13, (6)C19	IEC 60309 532P6	AMN563288
	Power Strip	16A	230V	1ph+N+PE	3	3.68kW	(21)C13, (3)C19	IEC 60309 316P6	AMN651659G
	Power Strip	16A	400V	3ph+N+PE	5	11.085kW	(30)C13, (6)C19	IEC 60309 516P6	AMN661681G
MBOS	Power Strip	32A	230V	1ph+N+PE	3	7.36kW	(21)C13, (3)C19	IEC 60309 332P6	AMN653253G
	Power Strip	32A	400V	3ph+N+PE	5	22.17kW	(30)C13, (6)C19	IEC 60309 532P6	AMN663288G

Exceeded thresholds may be programmed to sound an

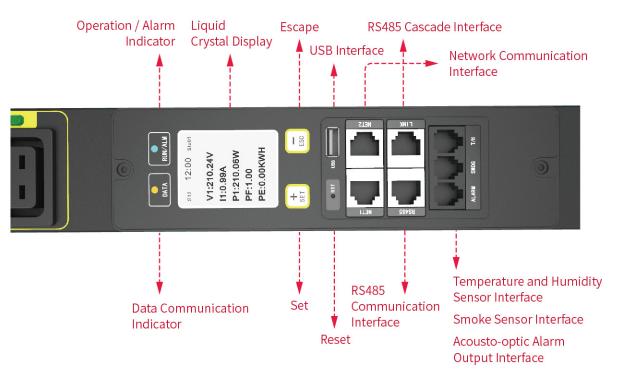
alarm or shut down the PDU.

Product Family

Outlet Metered and & Switched PDU

The "Metered-by-outlet with switching PDU" realizes real-time control of each outlet based on Outlet Metered PDU function. Authorized users can remotely control the opening, closing or restarting and delay time of each outlet or a group of outlets and carry out real-time early alarms.

Feature Location



Industrial Plugs and sockets

Connectors can be customized in various models, including



outlet colored identifiers.

^{*} Vertically Mounted