



Product Catalog

# ATEN NRGence™ Energy Intelligence PDU

The background of the page is a photograph of a server room. On the left and right sides, there are rows of black server racks filled with equipment. The floor is light-colored with dark grey lines forming a path. The ceiling has a grid of white tiles with recessed lighting. In the center of the image, there is a graphic overlay consisting of a light blue background with three overlapping circles: one green and two light blue. The text "Simply Better Connections" is centered over this graphic.

Simply Better Connections

2017 | 2018

# Simply Better Connections

## Our Vision

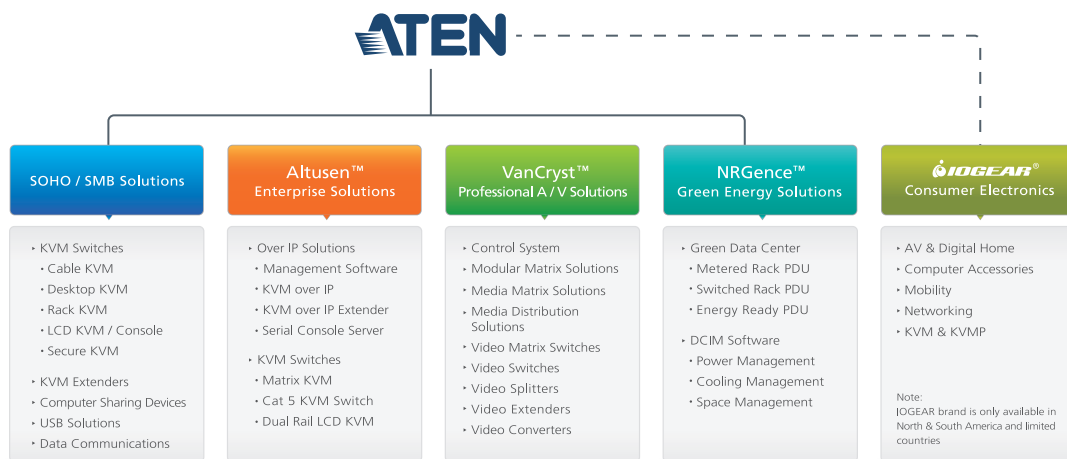
“Simply Better Connections” has always been at the heart of the ATEN brand. It means providing innovative solutions for you to make better connections, efficiently and seamlessly, to the information and people that you value. As a result, ATEN connects you to the world, anytime and anywhere, by providing technologies that enable you to share and to care. ATEN makes professional and personal life easier and better connected.

## About ATEN

ATEN, established in 1979, specializes in connectivity management solutions for accessing and sharing technologies. ATEN consolidates all of its products under the ATEN brand to provide a standard of consistent service under one name. The ATEN brand consists of innovative solutions applied to IT infrastructure access management, professional audio/video, green energy products for consumers, small/home offices (SOHO), small to medium sized business (SMB) and enterprise customers.

ATEN’s Altusen™ IT infrastructure access management solutions offer connectivity and control capabilities for SMB and Enterprise customers that allow people to effectively manage IT equipment from anywhere in the world. ATEN’s VanCryst™ professional audio/video solutions offer signal management and system control for home and professional audio/video installations with a variety of applications in corporate, education, government, hospitality and home theater environments. ATEN’s NRGence™ Green Energy line offers sensor-enabled energy-saving hardware and software solutions for the data center with a range of intelligent power distribution units that provide real-time energy management and performance indicators locally and remotely.

ATEN specializes in connectivity and management solutions. We distribute our products through a global sales network to meet a broad range of customer needs. ATEN delivers with quality and we care about our customers. We are committed to the best customer support in the industry.



## Our Core Values

		<b>Integrity</b> with pragmatism as our philosophy		<b>Caring</b> with respect as our spirit
		<b>Ambition</b> with optimism as our attitude		<b>Novelty</b> with added-value as our achievement

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# Company Profile



- Corporate Headquarters
- Asia-Pacific / Europe / America / Oceania
- R&D / Manufacturing



## Global Sales and Service Network

ATEN has built a global network of sales and engineering professionals to provide our customers with fast, efficient and comprehensive service. Our distribution channels and partners extend worldwide to more than 100 countries.



## ATEN eNews

ATEN eNews is a monthly publication featuring the latest ATEN product developments, marketing and promotional resources, and corporate activities.



### ATEN eService

ATEN eService is a web portal which provides several ATEN online services, including technical support, product registration, and partner services. All services can be accessed with a single ID and password.



### ATEN Partner Center

Authorized distributors can access the ATEN Partner Center to get the latest marketing materials, sales tools, technical documents, product certifications and more. Registered partners receive a monthly newsletter to stay up-to-date with ATEN's latest product news and events. ATEN also provides integrated marketing programs and promotions to assist partners in promoting ATEN products and services.

# ATEN NRGence™ Energy Intelligence PDU

At ATEN, we are committed to offering smart energy solutions for data centers. The NRGence™ Energy Intelligence solutions begin with a wide range of eco PDUs, developed to support ISO50001, that take intelligence to the next level by providing real-time energy management, control and energy-saving efficiency by allowing you to easily upgrade IT resources quickly and cost effectively. With long-term development in the data center solutions sector, ATEN's Energy Intelligence PDUs have been adopted in various industries all over the world, including Education, Government, Transportation, Enterprise and medium-sized businesses

## Featured Advantages of ATEN Energy Solution

### • Remote Power Outlet Control

ATEN eco PDUs allow administrators to remotely control the power of any server in a data center via network protocols including TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping and Telnet. Administrators can remotely access any individual outlet and outlet groups to manage power (On/Off, Power Cycle) through an easy-to-use web interface..

### • Real-Time Monitoring

Using ATEN's eco Sensors Energy Management Software, administrators can remotely monitor the current, voltage, kWh, power consumption and circuit breaker status of all connected devices in real-time. In addition, the software can track the temperature and humidity via sensors connected to the PDU and provides a complete comprehensive report of all the data being monitored.

### • Proactive Overload Protection (POP)

ATEN's exclusive POP feature of PE6 / PE8 automatically powers off outlets in the event of a current overload to protect the other connected devices from being shut down unexpectedly.

### • Power Analysis Reports

ATEN's eco Sensors software provides power analysis for optimizing data center energy management – with reports that include power usage, power load, power cost, CO2 cost, power capacity and trends. Following suggestions generated by the software allows you to optimize energy usage and save energy without harming IT reliability. In addition, it displays essential data center indices including Rack Intake Temperature, Rack Exhaust Temperature, Rack Equipment Temperature Difference, RCI (Rack Cooling Index), RTI (Return Temperature Index), RHI (Rack Humidity Index), RPI (Rack Pressure Index) and RAI (Rack Airflow Index).

### • Advanced Hardware Design

ATEN offers a wide range of 0U and 1U PDU solutions with advanced hardware designs. In addition to standard and low profile designs, thin form factor design is available for saving more space in the rack to increase airflow, cooling efficiency and easier maintenance.

### • Complete Accessories

Proper accessories make the PDU installation easier and power management more efficient. In addition to the standard rack mounting kits, ATEN's exclusive cable holders can secure the connection of the power cords with the PDU outlets. ATEN environment sensors allow the real-time monitoring of your data center's temperature, humidity and pressure. Also, the door sensors assist the security management of the data center.



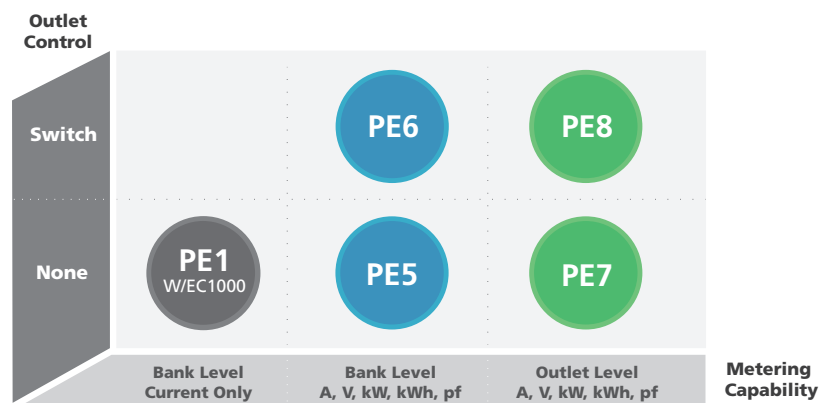


## PDU Comparison

Model	Energy PDU	eco PDU				eco PDU			
	Basic 0U Rack PDU	Intelligent 1U Rack PDU				Intelligent 0U Rack PDU			
	PE1216 PE1324	PE5108 PE5208	PE6108 PE6208	PE7108 PE7208	PE8108 PE8208	PE5216 PE5221T PE5224T PE5316 PE5324 PE5324T PE5342T	PE6216 PE6324 PE6324L	PE7216 PE7324	PE8216 PE8324 PE8324T
Rack Space	0U	1U	1U	1U	1U	0U	0U	0U	0U
Outlet	16, 24	8	8	8	8	16, 21 24, 42	16, 24	16, 24	16, 24
Outlet Switching			•				•		•
Metering Capability	Bank Level via EC1000	Bank Level	Bank Level	Outlet Level	Outlet Level	Bank Level	Bank Level	Outlet Level	Outlet Level
Environment Monitoring	Via EC1000	•	•	•	•	•	•	•	•
eco Sensors Support	Via EC1000	•	•	•	•	•	•	•	•
Proactive Overload Protection			•				•		•
Door Sensor Support								•	•

Note: The PE8T series will be available in Q4 of 2017.

## ATEN PDU Family





# ATEN's Exclusive POP Provides the Most Secure and Reliable Power Distribution

ATEN's Proactive Overload Protection (POP) empowers users to prioritize their data center's power distribution. When the current overloads, POP will automatically power off outlets to protect IT servers from shutting down unexpectedly. There are 2 POP options available for selection - LIFO Mode and Priority Mode.

## LIFO Mode :

The last powered on outlet will automatically power off.



## POP Settings

- Enable POP LIFO Mode
- Enable POP Priority Mode

## Priority Mode :

Outlets will power off following a pre-defined order. Administrators can set the shutdown priority of each outlet via web browser.

Bank 1 Priority Mode		Bank 2 Priority Mode	
Priority 1	Outlet 9	Priority 1	Outlet 18
Priority 2	Outlet 14	Priority 2	Outlet 22
Priority 3	Outlet 12	Priority 3	Outlet 19
Priority 4	Outlet 11	Priority 4	Outlet 21
Priority 5	Outlet 16	Priority 5	Outlet 20
Priority 6	Outlet 13	Priority 6	Outlet 23
Priority 7	Outlet 10	Priority 7	Outlet 17
Priority 8	Outlet 15	Priority 8	Outlet 24

## When a power overloading condition is detected....

With POP Protection

ATEN POP PDU  
(PE6 / PE8 Series)

Without POP Protection

Other PDUs

Without ATEN's POP, PDUs will cut off the entire circuit when the power is overloaded, resulting in a sudden shut down of all equipment – which can include lighting, air conditioning and servers.

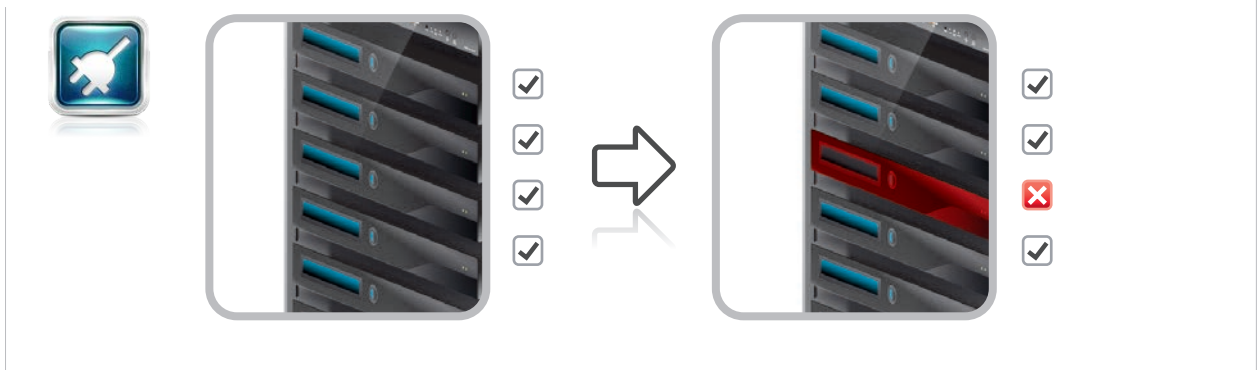
Note: ATEN's PE8 series support full POP functionality, while the PE6 series only provides Priority Mode.





# How can POP protect your IT equipment ?

## Scenario : Power Consumption Suddenly Rises and Causes Power Overload



### Setting A

- Enable POP LIFO Mode
- Enable POP Priority Mode

The POP feature will automatically cut off the power to the newly inserted server (LIFO Mode), and then switch off servers according to a preselected order (Priority Mode). This ensures other servers continue to work safely and are uninterrupted.



### Setting B

- Enable POP LIFO Mode
- Enable POP Priority Mode

The POP feature will instantly cut off power to servers according to the user's predefined order.



### Setting C

- Enable POP LIFO Mode
- Enable POP Priority Mode

The POP feature will automatically cut off the newly inserted server, this ensures the whole PDU won't shutdown and critical servers are protected. And if there is not any newly inserted server, then POP will only trip the alarm but won't shut down any outlet.

Scan here to view a video demonstrating ATEN's Energy Intelligence PDUs & exclusive POP feature.



# Energy PDU

## Basic 0U Rack PDU

PE1216 / PE1324



### PE1216

- 16 Outlets, 0U
- Power metering and environment monitoring by EC1000 Energy Box

### PE1324

- 24 Outlets, 0U
- Power metering and environment monitoring by EC1000 Energy Box

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The Energy PDU series contains 16/24 AC outlets and is available in various IEC or NEMA socket configurations. It features a space-saving 0U design that allows it to be mounted vertically on the outside of a rack, resulting in a more efficient use of server room space.

- Space saving 0U rack mount design
- IEC or NEMA outlet models
- Real-time PDU current monitoring\*

### IEC System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE1216G	0U	100-240V	16A	IEC 60320 C20	1 x 16A	16 x IEC320 C13	None	Bank (via EC1000)
PE1324G	0U	100-240V	32A	IEC 60309 32A	2 x 16A	24 x IEC320 C13	None	Bank (via EC1000)

### NEMA System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE1216A	0U	100-120V	20A	NEMA 5-20P	1 x 20A	16 x NEMA 5-15R	None	Bank (via EC1000)
PE1216B	0U	100-240V	20A	NEMA 6-20P	1 x 20A	16 x IEC320 C13	None	Bank (via EC1000)
PE1324B	0U	100-240V	30A	NEMA L6-30P	2 x 16A	24 x IEC320 C13	None	Bank (via EC1000)

\* Requires the EC1000 Energy Box, sold separately.

Note: Product information is subject to change without prior notification.

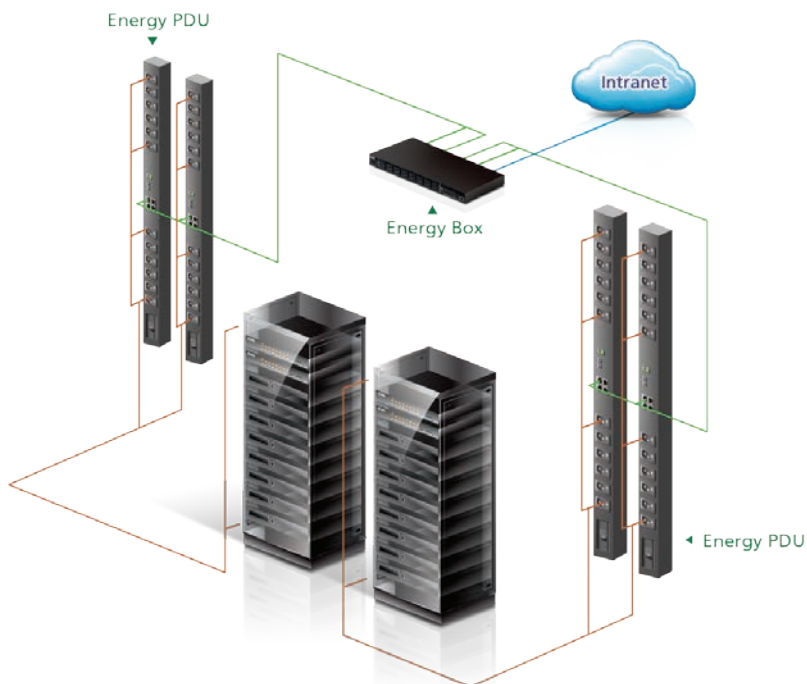


The NRGence™ Energy Box is an intelligent power monitor that works with ATEN Energy PDUs to monitor the electrical current of PDUs, and the temperature, humidity and differential pressure in a room using sensors. The EC1000 is a standalone Over IP monitoring box that can be controlled via Web UI or eco Sensors software. Conveniently installing the Energy Boxes on a rack and connecting them to the Energy PDUs, allows all the power information from the PDUs to be collected and displayed on the Energy Box for easy viewing and monitoring.

- 4 Energy Sensor ports for Energy PDU power monitoring (0A to 32A per port)
- 4 Environmental Sensor ports for temperature, humidity and differential pressure monitoring
- Space saving 0U/1U rack mount design
- Remote real-time electrical current management and monitoring
  - Current threshold level settings
  - Name assignment to individual PDUs
- Extended PDU Management Options
  - Remote management via network with Web Brower, eco Sensors software or 3rd party SNMP manager
- Exceeded threshold alerts via:
  - Local: audio alarm and LED lights
  - Remote: SMTP/SNMP trap/Syslog
- eco Sensors software for complete monitoring to optimize the power efficiency of data centers

Function	EC1000
Input Power	Power Adapter DC 5V (1.8m)
Eneyg Sensor Port	4 x Energy Sensor Port
Environment Sensor Port	4 x Environmental Sensor Port
LAN	1 x RJ-45 Female with LED
Monitoring Range	100-240V; 50/60Hz; 0A to 32A (per port) LED Display Resolution 0.1A Accuracy: +-0.1A@0~1A, +-1%@>1A

### Setup >



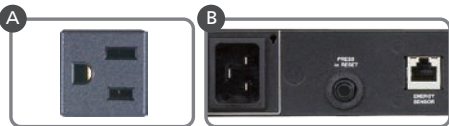
Specification > PE1216

Function		PE1216A	PE1216B	PE1216G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	Total: 16 x NEMA 5-15R	Total: 16 x IEC320 C13	Total: 16 x IEC320 C13
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	15A (Max)	15A (Max)	10A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Bank Level Current Monitoring (Via EC 1000 Energy Box)	Bank Level Current Monitoring (Via EC 1000 Energy Box)	Bank Level Current Monitoring (Via EC 1000 Energy Box)
	Outlet Switching	None	None	None
	Environment Sensor Ports	0	0	0
Physical Properties	Metering Accuracy	<b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
	Dimensions (L x W x H)	73 x 4.4 x 4.4 cm	73 x 4.4 x 4.4 cm	73 x 4.4 x 4.4 cm
	Weight	1.32 kg	1.32 kg	1.32 kg
Environmental	Power Cord Length	3 m	3 m	3 m
	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–50°C / -20–60°C	0–50°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	cTUVus, PSE, Others by Request	cTUVus, PSE, Others by Request	TUV-CB, GOST, Others by Request

Product Overview (PE1216A)



Product Detail

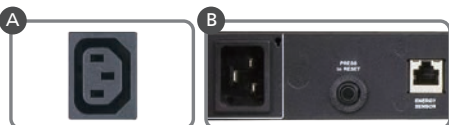


Outlet NEMA 5-15R

Product Overview (PE1216B / PE1216G)



Product Detail



Outlet IEC320 C13

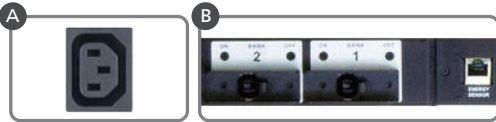
## Specification > PE1324

Function		PE1324B	PE1324G
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max))	7360 VA (Max)
	Outlet Type	<b>Total:</b> 24 x IEC320 C13 <b>Bank1:</b> Outlet 1 – 12; 12 x C13 <b>Bank2:</b> Outlet 13 – 24; 12 x C13	<b>Total:</b> 24 x IEC320 C13 <b>Bank1:</b> Outlet 1 – 12; 12 x C13 <b>Bank2:</b> Outlet 13 – 24; 12 x C13
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	15A (Max)	10A (Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker
	Metering	Bank Level Current Monitoring (Via EC1000 Energy Box)	Bank Level Current Monitoring (Via EC1000 Energy Box)
	Outlet Switching	None	None
	Environment Sensor Ports	0	0
Metering Accuracy	<b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	
Physical Properties	Dimensions (L x W x H)	130 x 4.04 x 4.4 cm	130 x 4.04 x 4.4 cm
	Weight	3.6 kg	3.6 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–50°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	PSE, Others by Request	TUV-CB, GOST, Others by Request

### Product Overview (PE1324B / PE1324G)



### Product Detail



Outlet IEC320 C13

# ECO PDU

Intelligent 1U Rack PDU

PE5108 / PE5208 / PE6108 / PE6208  
PE7108 / PE7208 / PE8108 / PE8208



**PE5108 / PE5208**  
• Bank level power status measurement

**PE7108 / PE7208**  
• Bank and outlet level power status measurement

**PE6108 / PE6208**  
• Remote power control  
• Proactive overload protection  
• Bank level power status measurement

**PE8108 / PE8208**  
• Remote power control  
• Proactive overload protection  
• Bank and outlet level power status measurement

## Power Distribution

- Space saving rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7 segment front panel LED shows Current / IP Address
- Remote users can monitor outlet status via web browser
- Safe shutdown support
- Separate power for the unit and its power outlets – the user interface is still accessible even when an overload trips the circuit breakers

## Remote Access

- Remote power control over TCP/IP via built-in 10/100 Ethernet port (PE6 / PE8 only)
- Network Protocols: TCP/IP, PPP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping, Telnet
- PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

## Operation

- Remote power control (On, Off, Power Cycle) by individual outlet (PE6 / PE8 only)
- Multiple power control methods – Wake on LAN, System After AC Back, Kill the Power (PE6 / PE8 only)
- Power-on sequencing – set the sequence and time delay for each outlet to power-on equipment in the correct order (PE6 / PE8 only)
- Easy setup and operation via browser-based user interface
- Multibrowser support (IE, Mozilla, Firefox, Chrome, Safari, Opera, Netscape)
- RTC support to keep the clock/timer running without power
- Supports up to 8 user and 1 administrator accounts
- Proactive Overload Protection (POP) automatically powers off outlets during current overloads to protect connected devices (PE6 / PE8 only)

## Management

- Power status measurement at the bank level (PE5 / PE6), or bank and outlet level (PE7 / PE8 only)
- LED indicators for current and IP address
- Real-time current, voltage and kWh displayed in a browsed-based UI for monitoring
- Environment monitoring via external sensors for rack temperature and humidity readings and alerts
- Current, voltage, power dissipation, energy consumption, temperature and humidity threshold settings
- Supports naming of outlets
- User outlet access rights on an outlet-by-outlet basis
- Event logging and syslog support
- Supports Management Information Base (MIB) files for SNMP
- Upgradeable firmware
- Multilingual support: English, Traditional Chinese, Simplified Chinese, Japanese, German, Italian, Spanish, French, Russian

## Security

- Two-level password security
- Security features include password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

Note: Product information is subject to change without prior notification.

## IEC System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE5108G	1U	100-240V	10A	IEC 60320 C14	1 x 10A	8 x IEC320 C13	None	Bank
PE5208G	1U	100-240V	16A	IEC 60320 C20	1 x 16A	7 x IEC320 C13 + 1 x IEC320 C19	None	Bank
PE6108G	1U	100-240V	10A	IEC 60320 C14	1 x 10A	8 x IEC320 C13	Yes	Bank
PE6208G	1U	100-240V	16A	IEC 60320 C20	1 x 16A	7 x IEC320 C13 + 1 x IEC320 C19	Yes	Bank
PE7108G	1U	100-240V	10A	IEC 60320 C14	1 x 10A	8 x IEC320 C13	None	Outlet
PE7208G	1U	100-240V	16A	IEC 60320 C20	1 x 16A	7 x IEC320 C13 + 1 x IEC320 C19	None	Outlet
PE8108G	1U	100-240V	10A	IEC 60320 C14	1 x 10A	8 x IEC320 C13	Yes	Outlet
PE8208G	1U	100-240V	16A	IEC 60320 C20	1 x 16A	7 x IEC320 C13 + 1 x IEC320 C19	Yes	Outlet

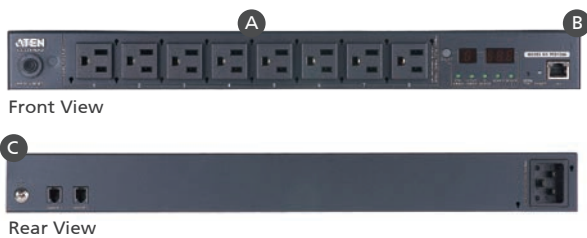
## NEMA System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE5108A	1U	100-120V	15A	NEMA 5-15P	1 x 15A	8 x NEMA 5-15R	None	Bank
PE5108B	1U	100-240V	15A	NEMA 6-15P	1 x 15A	8 x IEC320 C13	None	Bank
PE5208A	1U	100-120V	20A	NEMA 5-20P	1 x 20A	8 x NEMA 5-20R	None	Bank
PE5208B	1U	100-240V	20A	NEMA 6-20P	1 x 20A	7 x IEC320 C13 + 1 x IEC320 C19	None	Bank
PE6108A	1U	100-120V	15A	NEMA 5-15P	1 x 15A	8 x NEMA 5-15R	Yes	Bank
PE6108B	1U	100-240V	15A	NEMA 6-15P	1 x 15A	8 x IEC320 C13	Yes	Bank
PE6208A	1U	100-120V	20A	NEMA 5-20P	1 x 20A	8 x NEMA 5-20R	Yes	Bank
PE6208B	1U	100-240V	20A	NEMA 6-20P	1 x 20A	7 x IEC320 C13 + 1 x IEC320 C19	Yes	Bank
PE7108A	1U	100-120V	15A	NEMA 5-15P	1 x 15A	8 x NEMA 5-15R	None	Outlet
PE7108B	1U	100-240V	15A	NEMA 6-15P	1 x 15A	8 x IEC320 C13	None	Outlet
PE7208A	1U	100-120V	20A	NEMA 5-20P	1 x 20A	8 x NEMA 5-20R	None	Outlet
PE7208B	1U	100-240V	20A	NEMA 6-20P	1 x 20A	7 x IEC320 C13 + 1 x IEC320 C19	None	Outlet
PE8108A	1U	100-120V	15A	NEMA 5-15P	1 x 15A	8 x NEMA 5-15R	Yes	Outlet
PE8108B	1U	100-240V	15A	NEMA 6-15P	1 x 15A	8 x IEC320 C13	Yes	Outlet
PE8208A	1U	100-120V	20A	NEMA 5-20P	1 x 20A	8 x NEMA 5-20R	Yes	Outlet
PE8208B	1U	100-240V	20A	NEMA 6-20P	1 x 20A	7 x IEC320 C13 + 1 x IEC320 C19	Yes	Outlet

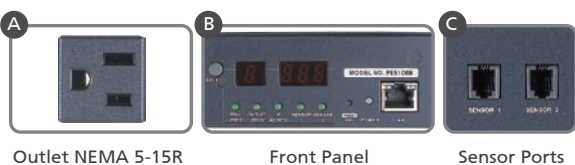
Specification > PE5108

Function		PE5108A	PE5108B	PE5108G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	15A (Max)	15A (Max)	10A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C14
	Input Power	1800 VA (Max)	3120 VA (Max)	2300 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-15R	<b>Total:</b> 8 x IEC320 C13	<b>Total:</b> 8 x IEC320 C13
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max)	C13: 15A (Max)	C13: 10A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	10A (Max)
	Maximum Output Current (Total)	15A (Max)	15A (Max)	10A (Max)
	Breakers	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker
	Metering	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	None	None	None
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	43.24 x 21.93 x 4.4 cm	43.24 x 21.93 x 4.4 cm	43.24 x 21.93 x 4.4 cm
	Weight	2.77 kg	2.82 kg	2.82 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

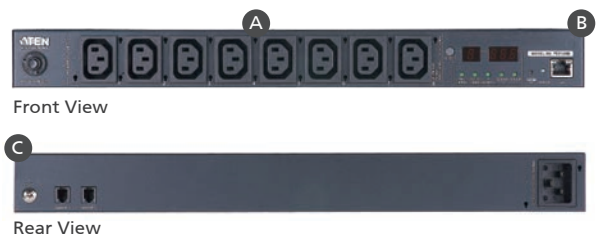
Product Overview (PE5108A)



Product Detail



Product Overview (PE5108B / PE5108G)



Product Detail

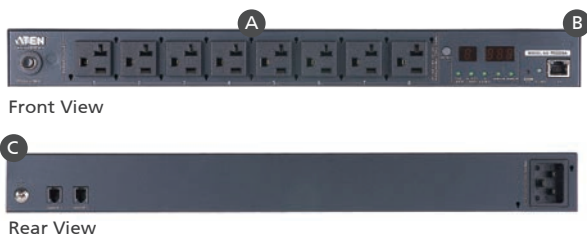




Specification > PE5208

Function		PE5208A	PE5208B	PE5208G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-20R	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	None	None	None
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.71 kg	2.71 kg	2.71 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

Product Overview (PE5208A)



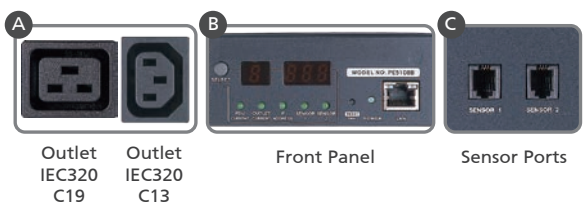
Product Overview (PE5208B / PE5208G)



Product Detail



Product Detail



Specification > PE6108

Function		PE6108A	PE6108B	PE6108G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	15A (Max)	15A (Max)	10A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C14
	Input Power	1800 VA (Max)	3120 VA (Max)	2300 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-15R	<b>Total:</b> 8 x IEC320 C13	<b>Total:</b> 8 x IEC320 C13
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max)	C13: 15A (Max)	C13: 10A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	10A (Max)
	Maximum Output Current (Total)	15A (Max)	15A (Max)	10A (Max)
	Breakers	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker
	Metering	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring	Bank level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.77 kg	2.77 kg	2.77 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

Product Overview (PE6108A)



Front View



Rear View

Product Detail



Outlet NEMA 5-15R

Front Panel

Sensor Ports

Product Overview (PE6108B / PE6108G)



Front View



Rear View

Product Detail



Outlet IEC320 C13

Front Panel

Sensor Ports

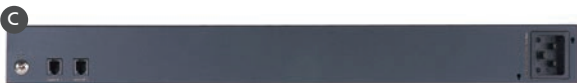
Specification > PE6208

Function	PE6208A	PE6208B	PE6208G	
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-20R	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Bank level Current, Voltage, VA, PF and KWh Monitoring	Bank level Current, Voltage, VA, PF and KWh Monitoring	Bank level Current, Voltage, VA, PF and KWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	2	2	2
Physical Properties	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.79 kg	2.79 kg	2.79 kg
Environmental	Power Cord Length	3 m	3 m	3 m
	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
Compliance	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
Compliance	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

Product Overview (PE6208A)



Front View



Rear View

Product Detail



Outlet NEMA 5-20R

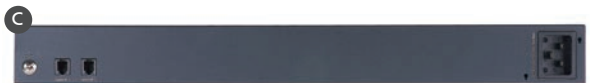
Front Panel

Sensor Ports

Product Overview (PE6208B / PE6208G)



Front View



Rear View

Product Detail



Outlet IEC320 C19  
Outlet IEC320 C13

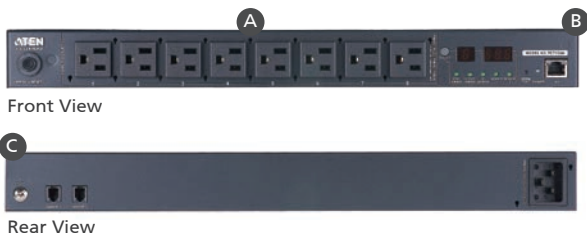
Front Panel

Sensor Ports

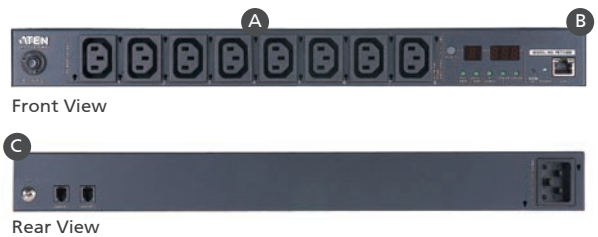
Specification > PE7108

Function		PE7108A	PE7108B	PE7108G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	15A (Max)	15A (Max)	10A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C14
	Input Power	1800 VA (Max)	3120 VA (Max)	2300 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-15R	<b>Total:</b> 8 x IEC320 C13	<b>Total:</b> 8 x IEC320 C13
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max)	C13: 15A (Max)	C13: 10A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	10A (Max)
	Maximum Output Current (Total)	15A (Max)	15A (Max)	10A (Max))
	Breakers	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker
	Metering	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	None	None	None
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.72 kg	2.72 kg	2.72 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

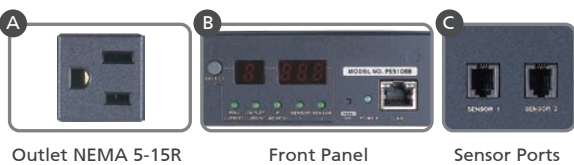
Product Overview (PE7108A)



Product Overview (PE7108B / PE7108G)



Product Detail



Product Detail



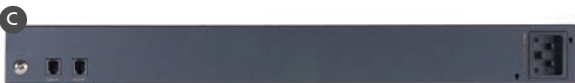
Specification > PE7208

Function	PE7208A	PE7208B	PE7208G	
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-20R	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	None	None	None
	Environment Sensor Ports	2	2	2
Physical Properties	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.74 kg	2.74 kg	2.74 kg
Environmental	Power Cord Length	3 m	3 m	3 m
	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

Product Overview (PE7208A)



Front View



Rear View

Product Detail



Outlet NEMA 5-20R

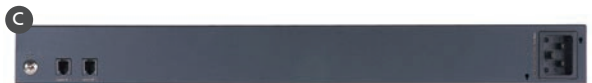
Front Panel

Sensor Ports

Product Overview (PE7208B / PE7208G)



Front View



Rear View

Product Detail



Outlet IEC320 C19

Outlet IEC320 C13

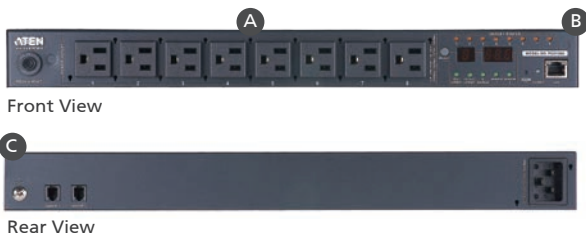
Front Panel

Sensor Ports

Specification > PE8108

Function	PE8108A	PE8108B	PE8108G	
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	15A (Max)	15A (Max)	10A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C14
	Input Power	1800 VA (Max)	3120 VA (Max)	2300 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-15R	<b>Total:</b> 8 x IEC320 C13	<b>Total:</b> 8 x IEC320 C13
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max)	C13: 15A (Max)	C13: 10A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	10A (Max)
	Maximum Output Current (Total)	15A (Max)	15A (Max)	10A (Max)
	Breakers	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker	1 x 15A Non-Fuse Breaker
	Metering	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.75 kg	2.75 kg	2.75 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, GOST, Others by Request
Metering Accuracy	Voltage Range:	100VAC ~ 250VAC +/-1%	100VAC ~ 250VAC +/-1%	100VAC ~ 250VAC +/-1%
	Power Range:	100W ~ Maximum Capacity +/- 2%	100W ~ Maximum Capacity +/- 2%	100W ~ Maximum Capacity +/- 2%
	Current Range:	0.1A~1A +/- 0.1A, 1A~20A +/-1%	0.1A~1A +/- 0.1A, 1A~20A +/-1%	0.1A~1A +/- 0.1A, 1A~20A +/-1%

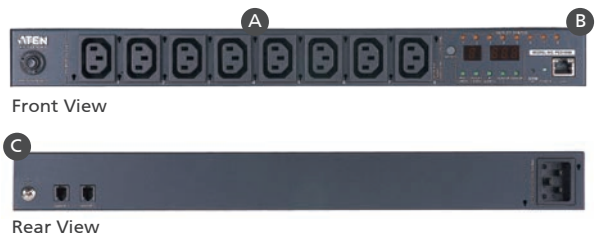
Product Overview (PE8108A)



Product Detail



Product Overview (PE8108B / PE8108G)



Product Detail



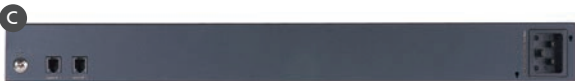
Specification > PE8208

Function	PE8208A	PE8208B	PE8208G	
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 8 x NEMA 5-20R	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19	<b>Total:</b> 7 x IEC320 C13 + 1 x IEC320 C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring	Outlet level Current, Voltage, VA , PF and KWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	2	2	2
Physical Properties	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
	Dimensions (L x W x H)	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm	43.24 x 22.04 x 4.4 cm
	Weight	2.84 kg	2.84 kg	2.84 kg
Environmental	Power Cord Length	3 m	3 m	3 m
	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, cTUVus, Others by Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, GOST, Others by Request

Product Overview (PE8208A)



Front View



Rear View

Product Detail



Outlet NEMA 5-20R

Front Panel

Sensor Ports

Product Overview (PE8208B / PE8208G)



Front View



Rear View

Product Detail



Outlet IEC320 C19  
Outlet IEC320 C13

Front Panel

Sensor Ports

# ECO PDU

Intelligent 0U Rack PDU

PE5216 / PE5221T / PE5224T / PE5316 / PE5324 / PE5324T / PE5342T  
PE6216 / PE6324 / PE6324L / PE7216 / PE7324  
PE8216 / PE8324 / PE8324T



PE5216 / PE5221T / PE5224T  
PE5324 / PE5324T / PE5342T  
• Bank level power status measurement

PE6216 / PE6324 / PE6324L  
• Remote power control  
• Proactive overload protection  
• Bank level power status measurement

PE7216 / PE7324  
• Bank and outlet level power status measurement  
• Door sensor support

PE8216 / PE8324 / PE8324T  
• Remote power control  
• Proactive overload protection  
• Bank and outlet level power status measurement  
• Door sensor support

## Power Distribution

- Space saving rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7-segment front panel LED shows Current / IP Address / Bank
- Remote users can monitor PDU/Bank status via web browser
- Safe shutdown support
- Separate power for the unit and its power outlets – the user interface is still accessible even when an overload trips the circuit breakers

## Remote Access

- Remote power control over TCP/IP via built-in 10/100 Ethernet port (PE6 / PE8 only)
- Network Protocols: TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping, Telnet
- PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

## Operation

- Remote power control (On, Off, Power Cycle) by individual outlet (PE6 / PE8 only)
- Multiple power control methods – Wake on LAN, System After AC Back, Kill the Power (PE6 / PE8 only)
- Power-on sequencing – set the sequence and time delay for each outlet to power-on equipment in the correct order (PE6 / PE8 only)
- Proactive Overload Protection (POP) automatically powers off outlets during current overloads to protect connected devices (PE6 / PE8 only)
- Easy setup and operation via browser-based interface
- Multibrowser support (IE, Mozilla, Firefox, Chrome, Safari, Opera, Netscape)
- RTC support to keep the clock/timer running without power
- Up to 8 user accounts and 1 administrator account

## Management

- Power status measurement at the bank level (PE5 / PE6), or bank and outlet level (PE7 / PE8)
- LED indicators for current and IP address
- Real-time aggregate current, voltage, and power and power dissipation displayed in a browser-based UI for monitoring
- Environment monitoring via external sensors for rack temperature and humidity readings and alerts
- Current, voltage, power dissipation, energy consumption, temperature and humidity threshold settings
- Supports naming of outlets
- Event logging and syslog support
- Supports Management Information Base (MIB) files for SNMP
- Upgradeable firmware
- Supports Door Sensor (PE7 / PE8 only)
- Multilingual support: English, Traditional Chinese, Simplified Chinese, Japanese, German, Italian, Spanish, French, Russian

## Security

- Two-level password security
- Security features include password protection advanced encryption technologies – 128 bit SSL
- Remote authentication support: RADIUS

## Hardware Design

- Thin form factor offers 8% more space in the rack to increase airflow, cooling efficiency and easier maintenance.

Note: Product information is subject to change without prior notification.



## IEC System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE5216G	0U	100-240V	16A	IEC 60320 C20	1 x 16A	14 x IEC320 C13 + 2 x IEC320 C19	None	Bank
PE5221T**	0U	100-240V	16A	IEC 60320 C20	1 x 16A	18 x IEC320 C13 + 3 x IEC320 C19	None	Bank
PE5316	0U	100-240V	32A	IEC 60309 32A	2 x 16A	6 x IEC320 C13 + 10 x IEC320 C19	None	Bank
PE5324G	0U	100-240V	32A	IEC 60309 32A	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	None	Bank
PE5342TG**	0U	100-240V	32A	IEC 60309 32A	2 x 16A	36 x IEC320 C13 + 6 x IEC320 C19	None	Bank
PE6216G	0U	100-240V	16A	IEC 60320 C20	1 x 16A	14 x IEC320 C13 + 2 x IEC320 C19	Yes	Bank
PE6324G	0U	100-240V	32A	IEC 60309 32A	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Bank
PE6324LG*	0U	100-240V	32A	IEC 60309 32A	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Bank
PE7216G	0U	100-240V	16A	IEC 60320 C20	1 x 16A	14 x IEC320 C13 + 2 x IEC320 C19	None	Outlet
PE7324G	0U	100-240V	32A	IEC 60309 32A	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	None	Outlet
PE8216G	0U	100-240V	16A	IEC 60320 C20	1 x 16A	14 x IEC320 C13 + 2 x IEC320 C19	Yes	Outlet
PE8324G	0U	100-240V	32A	IEC 60309 32A	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Outlet
PE8324TG**	0U	100-240V	32A	IEC 60309 32A	2 x 16A	20 x IEC320 C13 + 4 x IEC320 C19	Yes	Outlet

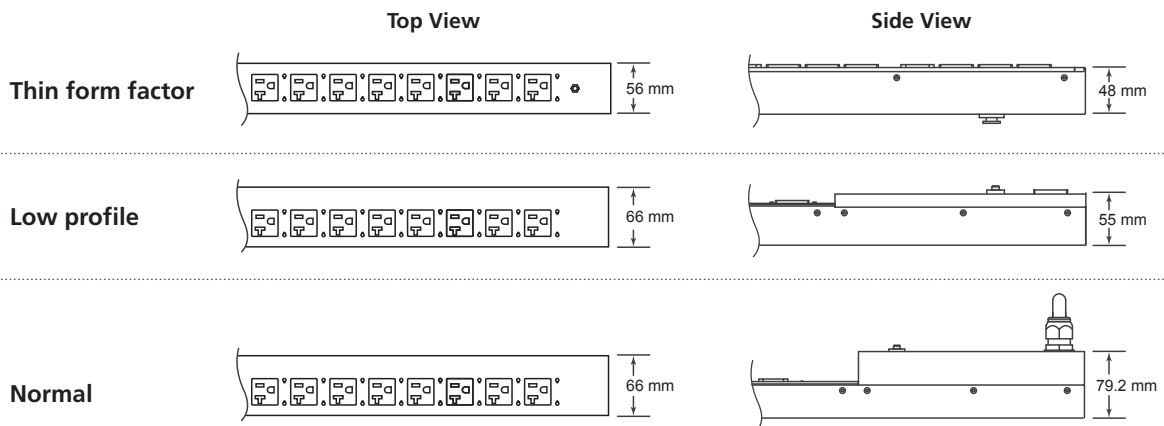
## NEMA System

Model	Rack Space	Input Voltage	(Max) AMP	Input Plug	# of Banks	Outlets	Outlet Control	Metering Level
PE5216A	0U	100-120V	20A	NEMA 5-20P	1 x 20A	14 x NEMA 5-15R + 2 x NEMA 5-20R	None	Bank
PE5216B	0U	100-240V	20A	NEMA 6-20P	1 x 20A	14 x IEC320 C13 + 2 x IEC320 C19	None	Bank
PE5221T**	0U	100-240V	16A	NEMA 6-20P	1 x 20A	18 x IEC320 C13 + 3 x IEC320 C19	None	Bank
PE5224TA	0U	100-120V	20A	NEMA 5-20P	1 x 20A	24 x NEMA 5-20R	None	Bank
PE5324B	0U	100-240V	30A	NEMA L6-30P	2 x 15A	21 x IEC320 C13 + 3 x IEC320 C19	None	Bank
PE5324TA**	0U	100-120V	30A	NEMA L5-30P	2 x 15A	24 x NEMA 5-20R	None	Bank
PE5342TB**	0U	100-240V	30A	NEMA L6-30P	2 x 15A	36 x IEC320 C13 + 6 x IEC320 C19	None	Bank
PE6216A	0U	100-120V	20A	NEMA 5-20P	1 x 20A	14 x NEMA 5-15R + 2 x NEMA 5-20R	Yes	Bank
PE6216B	0U	100-240V	20A	NEMA 6-20P	1 x 20A	14 x IEC320 C13 + 2 x IEC320 C19	Yes	Bank
PE6324B	0U	100-240V	30A	NEMA L6-30P	2 x 15A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Bank
PE6324LB*	0U	100-240V	30A	NEMA L6-30P	2 x 15A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Bank
PE7216B	0U	100-240V	20A	NEMA 6-20P	1 x 20A	14 x IEC320 C13 + 2 x IEC320 C19	None	Outlet
PE7324B	0U	100-240V	30A	NEMA L6-30P	2 x 16A	21 x IEC320 C13 + 3 x IEC320 C19	None	Outlet
PE8216B	0U	100-240V	20A	NEMA 6-20P	1 x 20A	14 x IEC320 C13 + 2 x IEC320 C19	Yes	Outlet
PE8324A	0U	100-120V	30A	NEMA L5-30P	2 x 15A	24 x NEMA 5-15R	Yes	Outlet
PE8324B	0U	100-240V	30A	NEMA L6-30P	2 x 15A	21 x IEC320 C13 + 3 x IEC320 C19	Yes	Outlet
PE8324TA**	0U	100-120V	30A	NEMA L5-30P	2 x 15A	24 x NEMA 5-20R	Yes	Outlet
PE8324TB**	0U	100-240V	30A	NEMA L6-30P	2 x 15A	20 x IEC320 C13 + 4 x IEC320 C19	Yes	Outlet

\* Low profile dimension.

\*\* Thin form factor.

Note: The PE8T series will be available in Q4 of 2017.



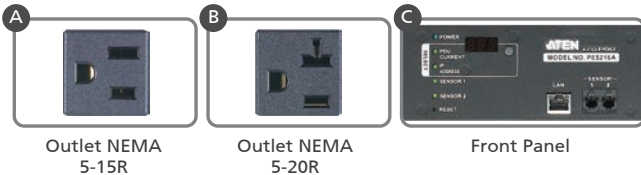
Specification > PE5216

Function		PE5216A	PE5216B	PE5216G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 14 x NEMA 5-15R + 2 x NEMA 5-20R <b>Bank1-1:</b> Outlet 1 – 8; 7 x NEMA 5-15R + 1 x NEMA 5-20R <b>Bank1-2:</b> Outlet 9 – 16; 7 x NEMA 5-15R + 1 x NEMA 5-20R	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max) NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Bank Level Current, Voltage, VA, PF and kWh Monitoring	Bank Level Current, Voltage, VA, PF and kWh Monitoring	Bank Level Current, Voltage, VA, PF and kWh Monitoring
	Outlet Switching	None	None	None
	Environment Sensor Ports	2	2	2
Physical Properties	Dimensions (L x W x H)	132.8 x 6.6 x 4.4 cm	132.8 x 6.6 x 4.4 cm	132.8 x 6.6 x 4.4 cm
	Weight	3.47 kg	3.47 kg	3.47 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	cTUVus, PSE, Others by Request	cTUVus, PSE, Others by Request	TUV-CB, GOST, Others by Request

Product Overview (PE5216A)



Product Detail



Product Overview (PE5216B / PE5216G)



Product Detail



## Specification > PE5221T

Function	PE5221T	
Electrical	Nominal Input Voltage	100 – 240 VAC
	Maximum Input Current	16A (Max)
	Input Frequency	50-60 Hz
	Input Connection	For B Plug: NEMA 6-20P For G Plug: IEC60320 C20
	Input Power	3680 VA (Max)
	Outlet Type	Total: 18 x IEC320 C13 + 3 x IEC320 C19
	Nominal Output Voltage	100 – 240 VAC
	Maximum Output Current (Outlet)	For B Plug: C13: 12A C19: 16A For G Plug: C13: 10A C19: 16A
	Maximum Output Current (Bank)	16A (Max)
	Maximum Output Current (Total)	16A (Max)
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None
	Environment Sensor Ports	2
	Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ Maximum Capacity +/- 2% Current range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Physical Properties	Dimensions (L x W x H)	90.2 x 5.6 x 4.8 cm
	Weight	2.34 kg
	Power Cord Length	3 m
Environmental	Temperature (Operating / Storage)	For B Plug : 0 – 50°C / -20 – 60°C For G Plug: 0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing
Compliance	EMC Verification	CE, FCC, J55022, Others by Request
	Safety Verification	CE-LVD, PSE, Others by Request

### Product Overview (PE5221T)



### Product Detail



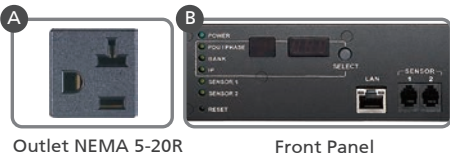
## Specification > PE5224T

Function	PE5224TA	
Electrical	Nominal Input Voltage	100 – 120 VAC
	Maximum Input Current	20A (Max)
	Input Frequency	50-60 Hz
	Input Connection	NEMA 5-20P
	Input Power	2400 VA (Max)
	Outlet Type	Total: 24 x NEMA 5-20R Bank 1-1: Outlet 1-12; 12 x NEMA 5-20R Bank 1-2: Outlet 13-24; 12 x NEMA 5-20R
	Nominal Output Voltage	100 – 120 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max)
	Maximum Output Current (Bank)	20A (Max)
	Maximum Output Current (Total)	20A (Max)
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None
	Environment Sensor Ports	2
	Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power range: 100W ~ Maximum Capacity +/- 2% Current range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Physical Properties	Dimensions (L x W x H)	177.5 x 5.6 x 4.8 cm
	Weight	3.93 kg
	Power Cord Length	3 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, J55022, Others by Request
	Safety Verification	PSE, Others by Request

### Product Overview (PE5224TA)



### Product Detail



Outlet NEMA 5-20R

Front Panel

## Specification > PE5316

Function		PE5316
Electrical	Nominal Input Voltage	100 – 240 VAC
	Maximum Input Current	32A (Max)
	Input Frequency	50-60 Hz
	Input Connection	For G Plug: IEC 60309 32A For X Plug: Terminal Block
	Input Power	7360 VA(Max)
	Outlet Type	<b>Total : 6 x IEC320 C13 + 10 x IEC 320 C19</b>
	Nominal Output Voltage	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Total)	32A (Max)
	Switch	2 x 16A Air Switch
	Metering	Bank level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None
	Environment Sensor Ports	2
	Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ Maximum Capacity +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Physical Properties	Dimensions (L x W x H)	148 x 5.6 x 4.8 cm
	Weight	TBD
	Power Cord Length	For G Plug: 3 m For X Plug: NA
Environmental	Temperature (Operating / Storage)	0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	CE, Others by Request
	Safety Verification	CE-LVD, Others by Request

### Product Overview (PE5316)



### Product Detail



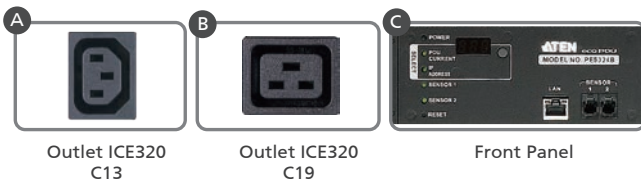
## Specification > PE5324

Function	PE5324B	PE5324G	
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None	None
	Environment Sensor Ports	2	2
Physical Properties	Dimensions (L x W x H)	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm
	Weight	5.82 kg	5.82 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	cTUVus, PSE, Others by Request	TUV-CB, GOST, Others by Request

### Product Overview (PE5324B / PE5324G)



### Product Detail



Outlet ICE320 C13

Outlet ICE320 C19

Front Panel

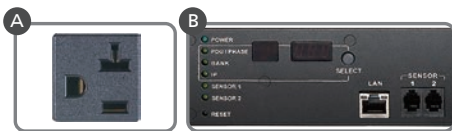
## Specification > PE5324T

	Function	PE5324TA
Electrical	Nominal Input Voltage	100 – 120 VAC
	Maximum Input Current	30A (Max)
	Input Frequency	50-60 Hz
	Input Connection	NEMA L5-30P
	Input Power	3600 VA (Max)
	Outlet Type	<b>Total:</b> 24 x NEMA 5-20R <b>Bank1:</b> Outlet 1 – 12; 12 x NEMA 5-20R <b>Bank2:</b> Outlet 13 – 24; 12 x NEMA 5-20R
	Nominal Output Voltage	100 – 120 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 15A (Max)
	Maximum Output Current (Bank)	15A (Max)
	Maximum Output Current (Total)	30A (Max)
	Breakers	2 x 16A Slim Breaker
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None
	Environment Sensor Ports	2
Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	
Physical Properties	Dimensions (L x W x H)	177.50 x 5.60 x 4.80 cm
	Weight	4.95 kg
	Power Cord Length	3 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, J55022, Others by Request
	Safety Verification	PSE, Others by Request

### Product Overview (PE5324TA)



### Product Detail



Outlet NEMA 5-20R

Front Panel

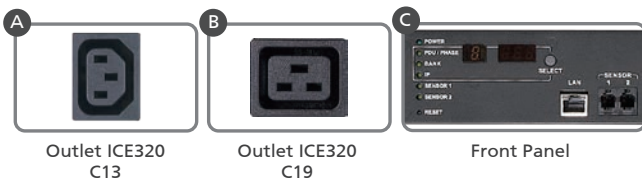
## Specification > PE5342T

Function		PE5342TB	PE5342TG
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 36 x IEC320 C13 + 6 x IEC320 C19 <b>Bank1:</b> Outlet 1 – 21; 18 x C13 + 3 x C19 <b>Bank2:</b> Outlet 22 – 42; 18 x C13 + 3 x C19	<b>Total:</b> 36 x IEC320 C13 + 6 x IEC320 C19 <b>Bank1:</b> Outlet 1 – 21; 18 x C13 + 3 x C19 <b>Bank2:</b> Outlet 22 – 42; 18 x C13 + 3 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A Slim Breaker	2 x 16A Slim Breaker
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None	None
	Environment Sensor Ports	2	2
Physical Properties	Dimensions (L x W x H)	177.5 x 5.6 x 4.8 cm	177.5 x 5.6 x 4.8 cm
	Weight	6.01 kg	5.57 kg
	Power Cord Length	3 m	3 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, J55022, Others by Request	CE, Others by Request
	Safety Verification	PSE, Others by Request	CE-LVD, Others by Request

### Product Overview (PE5342TB / PE5342TG)



### Product Detail





## Specification > PE6216

Function		PE6216A	PE6216B	PE6216G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
	Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 14 x NEMA 5-15R + 2 x NEMA 5-20R <b>Bank1-1:</b> Outlet 1 – 8; 7 x NEMA 5-15R + 1 x NEMA 5-20R <b>Bank1-2:</b> Outlet 9 – 16; 7 x NEMA 5-15R + 1 x NEMA 5-20R	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max) NEMA 5-20R: 20A (Max)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker
	Metering	Bank Level Current, Voltage, VA, PF and kWh Monitoring	Bank Level Current, Voltage, VA, PF and kWh Monitoring	Bank Level Current, Voltage, VA, PF and kWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	2	2	2
	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Physical Properties	Dimensions (L x W x H)	132.48 x 6.6 x 4.4 cm	132.48 x 6.6 x 4.4 cm	132.48 x 6.6 x 4.4 cm
	Weight	3.73 kg	3.73 kg	3.73 kg
	Power Cord Length	3 m	3 m	3 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	cTUVus, PSE, Others by Request	cTUVus, PSE, Others by Request	TUV-CB, GOST, Others by Request

### Product Overview (PE6216A)



### Product Detail



### Product Overview (PE6216B / PE6216G)



### Product Detail



## Specification > PE6324

Function		PE6324B	PE6324G
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	Yes	Yes
	Environment Sensor Ports	2	2
Physical Properties	Dimensions (L x W x H)	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm
	Weight	6.12 kg	6.12 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	cTUVus, PSE, Others by Request	TUV-CB, CE-LVD, Others by Request

### Product Overview (PE6324B / PE6324G)



### Product Detail



## Specification > PE6324L

Function		PE6324LB	PE6324LG
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A Slim Breaker	2 x 16A Slim Breaker
	Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring	Bank Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	Yes	Yes
	Environment Sensor Ports	2	2
Physical Properties	Dimensions (L x W x H)	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm
	Weight	6.2 kg	6.2 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–50°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	By Request	CE-LVD, Others by Request

### Product Overview (PE6324LB / PE6324LG)



### Product Detail



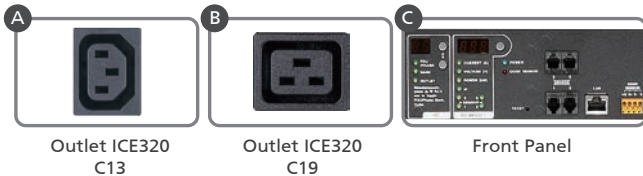
## Specification > PE7216

Function	PE7216B	PE7216G	
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA 6-20P	IEC 60320 C20
	Input Power	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse breaker	1 x 16A Non-Fuse breaker
	Metering	Outlet Level Current, Voltage, VA, PF, kWh Monitoring	Outlet Level Current, Voltage, VA, PF, kWh Monitoring
	Outlet Switching	None	None
	Environment Sensor Ports	4	4
Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	
Physical Properties	Dimensions (L x W x H)	132.48 x 6.6 x 4.4 cm	132.48 x 6.6 x 4.4 cm
	Weight	3.7 kg	3.7 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC Part 15 Class A, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, Others by Request	TUV-CB, CE-LVD, Others by Request

### Product Overview (PE7216B / PE7216G)



### Product Detail



## Specification > PE7324

Function		PE7324B	PE7324G
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	32A(Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A(Max)
	Maximum Output Current (Bank)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker
	Metering	Outlet Level Current, Voltage, VA , PF and kWh Monitoring	Outlet Level Current, Voltage, VA , PF and kWh Monitoring
	Outlet Switching	None	None
	Environment Sensor Ports	4	4
Physical Properties	Dimensions (L x W x H)	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm
	Weight	6.09 kg	6.09 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0–40°C / -20–60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0–80% RH, Non-Condensing
Compliance	EMC Verification	FCC, Others by Request	CE, C-Tick, Others by Request
	Safety Verification	PSE, Others by Request	GOST, Others by Request

### Product Overview (PE7324B / PE7324G)



### Product Detail



## Specification > PE8216

Function	PE8216B	PE8216G	
Electrical	Nominal Input Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	20A (Max)	16A (Max)
	Input Frequency	50-60 Hz	50-60 Hz
	Input Connection	NEMA 6-20P	IEC 60320 C20
	Input Power	4160 VA (Max)	3680 VA (Max)
	Outlet Type	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19	<b>Total:</b> 14 x IEC320 C13 + 2 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	C13: 15A (Max) C19: 20A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	20A (Max)	16A (Max)
	Maximum Output Current (Total)	20A (Max)	16A (Max)
	Breakers	1 x 20A Non-Fuse breaker	1 x 16A Non-Fuse breaker
	Metering	Outlet Level Current, Voltage, VA, PF, kWh Monitoring	Outlet Level Current, Voltage, VA, PF, kWh Monitoring
	Outlet Switching	Yes	Yes
	Environment Sensor Ports	4	4
Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	
Physical Properties	Dimensions (L x W x H)	132.48 x 6.6 x 4.4 cm	132.48 x 6.6 x 4.4 cm
	Weight	3.88 kg	3.88 kg
	Power Cord Length	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC Part 15 Class A, Others by Request	CE, Others by Request
	Safety Verification	TUV-CB, Others by Request	CE-LVD, Others by Request

### Product Overview (PE8216B / PE8216G)



### Product Detail



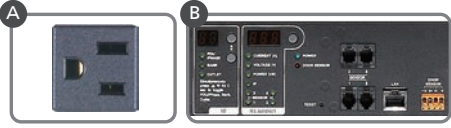
Specification > PE8324

Function		PE8324A	PE8324B	PE8324G
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA L5-30P	NEMA L6-30P	IEC 60309 32A
	Input Power	6240 VA (Max)	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 24 x NEMA 5-15R <b>Bank1-1:</b> Outlet 1 – 8; 8 x NEMA 5-15R <b>Bank1-2:</b> Outlet 9 – 16; 8 x NEMA 5-15R <b>Bank2:</b> Outlet 17 – 24; 8 x NEMA 5-15R	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19	<b>Total:</b> 21 x IEC320 C13 + 3 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 – 8; 7 x C13 + 1 x C19 <b>Bank1-2:</b> Outlet 9 – 16; 7 x C13 + 1 x C19 <b>Bank2:</b> Outlet 17 – 24; 7 x C13 + 1 x C19
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker	2 x 16A UL489 Breaker
	Metering	Outlet Level Current, Voltage, VA, PF, KWh Monitoring	Outlet Level Current, Voltage, VA, PF, KWh Monitoring	Outlet Level Current, Voltage, VA, PF, KWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	4	4	4
	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current Range:</b> 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Physical Properties	Dimensions (L x W x H)	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm	177.5 x 6.6 x 4.4 cm
	Weight	6.33 kg	6.33 kg	6.33 kg
	Power Cord Length	1.6 m	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C	0 – 50°C / -20 – 60°C	0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC Part 15 Class A, Others by Request	FCC Part 15 Class A, Others by Request	CE, Others by Request
	Safety Verification	By Request	TUV-CB, cTUVus, Others by Request	TUV-CB, CE-LVD, Others by Request

### Product Overview (PE8324A)



### Product Detail



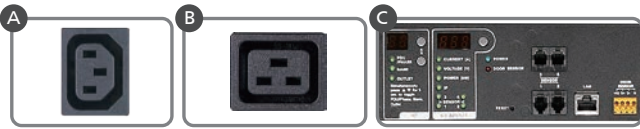
Outlet NEMA 5-15R

Front Panel

### Product Overview (PE8324B)



### Product Detail



Outlet ICE320 C13

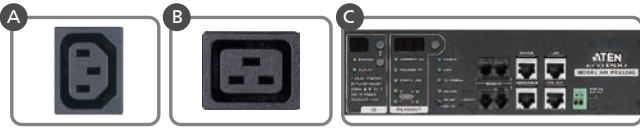
Outlet ICE320 C19

Front Panel

### Product Overview (PE8324G)



### Product Detail



Outlet ICE320 C13

Outlet ICE320 C19

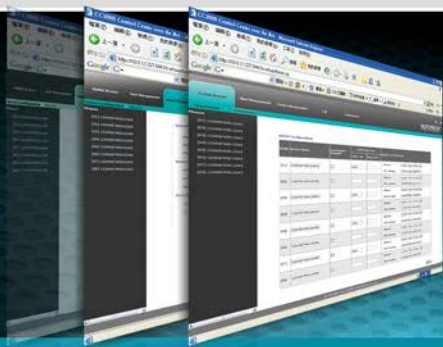
Front Panel



## Specification > PE8324T

Function	PE8324TA	PE8324TB	PE8324TG	
Electrical	Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
	Maximum Input Current	30A (Max)	30A (Max)	32A (Max)
	Input Frequency	50-60 Hz	50-60 Hz	50-60 Hz
	Input Connection	NEMA L5-30P	NEMA L6-30P	IEC 60309 32A
	Input Power	3600 VA (Max)	6240 VA (Max)	7360 VA (Max)
	Outlet Type	<b>Total:</b> 24 x NEMA 5 -20R <b>Bank1-1:</b> Outlet 1 - 8; 8 x NEMA 5 - 20R <b>Bank1-2:</b> Outlet 9 - 12; 4 x NEMA 5 - 20R <b>Bank2-1:</b> Outlet 13 - 16; 4 x NEMA 5 - 20R <b>Bank2-2:</b> Outlet 17 - 24; 8 x NEMA 5 - 20R	<b>Total:</b> 20 x IEC320 C13 + 4 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 - 8; 6 x C13 + 2 x C19 <b>Bank1-2:</b> Outlet 9 - 12; 4 x C13 <b>Bank2-1:</b> Outlet 13 - 16; 3 x C13 + 1 x C19 <b>Bank2-2:</b> Outlet 17 - 24; 7 x C13 + 1 x C19	<b>Total:</b> 20 x IEC320 C13 + 4 x IEC320 C19 <b>Bank1-1:</b> Outlet 1 - 8; 6 x C13 + 2 x C19 <b>Bank1-2:</b> Outlet 9 - 12; 4 x C13 <b>Bank2-1:</b> Outlet 13 - 16; 3 x C13 + 1 x C19 <b>Bank2-2:</b> Outlet 17 - 24; 7 x C13 + 1 x C
	Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 2400 VAC
	Maximum Output Current (Outlet)	NEMA 5-20R: 15A (Max)	C13: 15A (Max) C19: 15A (Max)	C13: 10A (Max) C19: 16A (Max)
	Maximum Output Current (Bank)	15A (Max)	15A (Max)	16A (Max)
	Maximum Output Current (Total)	30A (Max)	30A (Max)	32A (Max)
	Breakers	2 x 16A UL489 Slim Breaker	2 x 16A UL489 Slim Breaker	2 x 16A UL489 Slim Breaker
	Metering	Outlet Level Current, Voltage, VA, PF and kWh Monitoring	Outlet Level Current, Voltage, VA, PF, kWh Monitoring	Outlet Level Current, Voltage, VA, PF, kWh Monitoring
	Outlet Switching	Yes	Yes	Yes
	Environment Sensor Ports	4	4	4
	Metering Accuracy	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current range:</b> 0.1A~1A +/- 0.1A, 1A~ +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current range:</b> 0.1A~1A +/- 0.1A, 1A~ +/-1%	<b>Voltage Range:</b> 100VAC ~ 250VAC +/-1% <b>Power Range:</b> 100W ~ Maximum Capacity +/- 2% <b>Current range:</b> 0.1A~1A +/- 0.1A, 1A~ +/-1%
Physical Properties	Dimensions (L x W x H)	177.5 x 5.6 x 4.8 cm	177.5 x 5.6 x 4.8 cm	177.5 x 5.6 x 4.8 cm
	Weight	6.33kg	6.33kg	6.33kg
	Power Cord Length	1.6 m	1.6 m	1.6 m
Environmental	Temperature (Operating / Storage)	0–50°C / -20–60°C	0 – 50°C / -20 – 60°C	0 – 40°C / -20 – 60°C
	Humidity (Operating & Storage)	0–80% RH, Non-Condensing	0 – 80% RH, Non-Condensing	0 – 80% RH, Non-Condensing
Compliance	EMC Verification	FCC, J55022, Others by Request	FCC, J55022, Others by Request	CE, Others by Request
	Safety Verification	PSE, Others by Request	PSE, Others by Request	CE-LVD, Others by Request





### What is eco Sensors software?

eco Sensors software gives you the tools to create a fully optimized, energy efficient data center. The software combines ATEN's cutting edge eco-technology with an intuitive GUI to deliver the best Data Center Infrastructure Management (DCIM) software on the market. ATEN's eco Sensors software not only gives you the means to assess, diagnose and estimate your energy saving potential, it provides advice on the best way to do it.

### Overview

ATEN's eco Sensors software perfectly synergizes with NRGence™ Energy Intelligence PDUs to provide the mechanisms to optimize your energy needs. The software and PDU can measure the Dynamic Rack Cooling Index (RCI) and Return Temperature Index (RTI). This allows data centers to analyze the operational efficiency of equipment versus the cost of cooling, in order to better manage power allocation. These indexes have been incorporated into the U.S. Department of Energy DC Pro software tools for data center energy assessments and the Data Center Energy Practitioner program.

Using ATEN's NRGence™ Energy Intelligence PDU and eco Sensors energy & DCIM management software, an administrator's data center is equipped with real time monitoring, measurements and EnPIs analysis that produce reports of power usage, PUE, RCI and RTI to meet the ISO 50001 requirements. With these critical indexes, you can generate customized reports about your data center's energy usage that include energy saving suggestions. Following these suggestions allows you to optimize energy usage and save energy without harming the IT equipment's reliability.

ATEN's eco Sensors software is available in a Server and Client version. The Server version offers the full functionalities of the eco Sensors software and is capable of managing the PDUs through SNMP and managing client nodes through TCP/IP. This allows multiple users to log in to the server node and manage PDUs in different authorized zones, making distributed PDU management much more efficient under one centralized environment. With the Client version, users can log in to a server node to monitor PDU status and control each outlet on the PDUs. Having the eco Sensors Server and Client version allows data centers to optimize their performance and centralize management with ease.



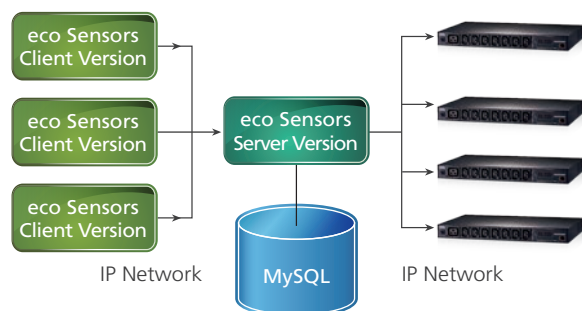
Real-time Rack Status Monitoring

### Server Version

- Offers full functionalities of eco Sensors
- Manage clients through TCP/IP
- Manage PDUs through SNMP

### Client Version

- Users are allowed to log in to the Server version
- Real time functions:
- Dashboard / Power Control / Group Control



eco Sensors Server & Client Version

# Benefits of eco Sensors Software

## Power Measurement and Scheduling by Zone

eco Sensors allows you to group racks in up to 128 zones and define specific areas that you wish to get readings for. Administrators can schedule power on & off by zone and monitor real-time stats with data such as peak and average power usage per zone.

## Power Analysis Report

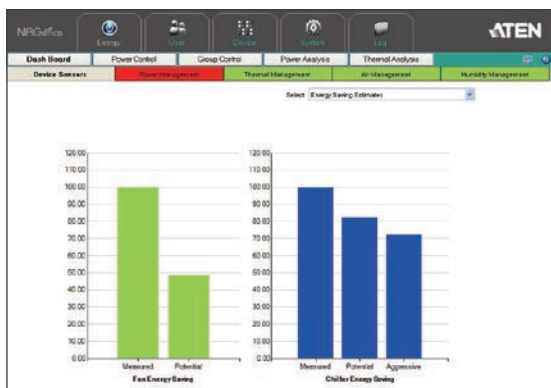
eco Sensors offers comprehensive power analysis reports which can be segmented by departments and locations. It displays trending charts in real-time or according to the day, month, year, or grasp the power consumption needs of each season. By knowing the actual power consumption trends with easy to read charts, you can allocate energy resources and prevent wasted power capacity.

## Optimum Data Center Energy Management

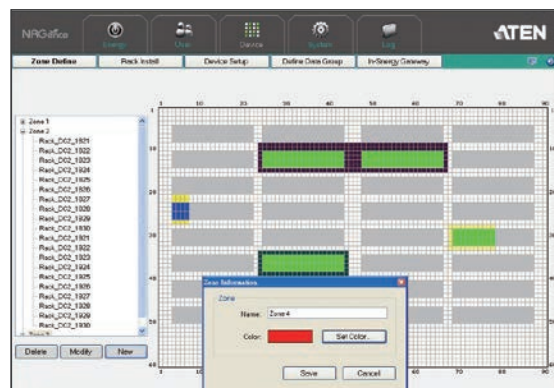
When used in conjunction with Sensor-enabled eco PDUs, eco Sensors Energy Management Software provides administrators with a real-time Rack Cooling Index<sup>®</sup> and dynamic power analysis to protect IT equipment from excess heat or insufficient power capacity.

## Fan Energy Saving & Chiller Energy Saving

eco Sensors software provides real-time power measurements and environmental monitoring of a data center from a variety of locations including: at the zone, rack, device or outlet level. By generating customized reports about your data center's status, administrators can evaluate the Fan Energy Saving & Chiller Energy Saving potential. With this information, administrators can quickly analyze and confirm how long it will take to recover the cost of investing new energy resources, and confirm the return on investment.

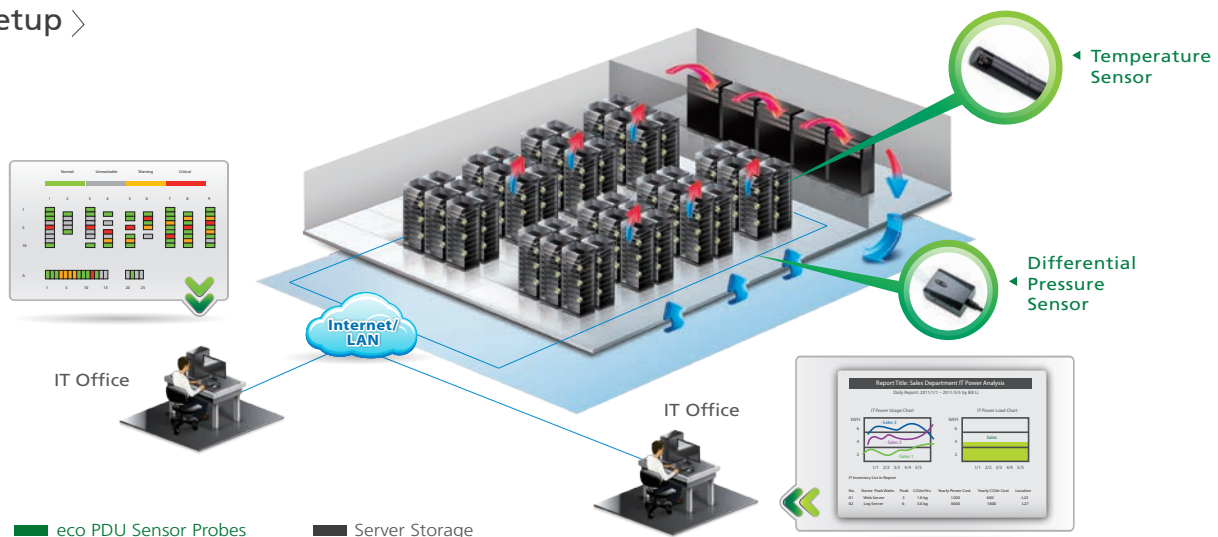


Energy Saving Estimates



Zone Setting

## Setup >



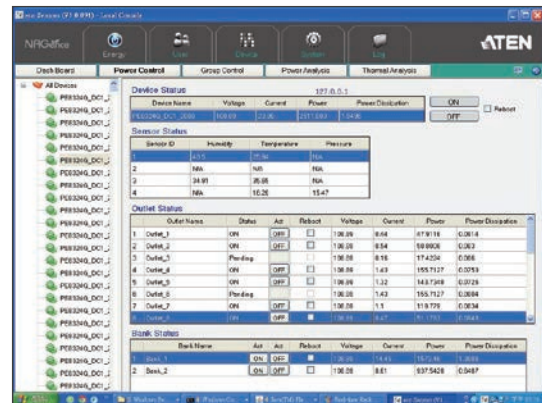
# Features of eco Sensors Software

- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
  - PDU level current / voltage / power dissipation / power consumption
  - Outlet ON / OFF / Recycle status
- Second window to monitor a data center's PUE, RTI, RCI, Power, Carbon Footprint and rack status
- Remote real-time power outlet management\*
  - Power outlet ON / OFF / Cycle switching by outlet or user-defined group
  - Power outlet ON / OFF / Cycle switching with pre-defined schedule
  - User-defined outlet level delays for sequential power up
  - Current / Voltage / Power Dissipation / Power Consumption threshold level settings
  - User access assignment for every outlet
  - Name assignment to individual outlets
- Remote real-time environment sensor monitoring
  - Temperature / Temperature + Humidity / Temperature + Differential Pressure readings
  - Temperature and Humidity threshold level settings

- Plotting / Monitoring of all PE devices
  - Add data center server racks
  - Add PE devices for each server rack
  - Manage device/device outlet status for each plot
- Offers essential data center indices including Rack Intake Temperature, Rack Exhaust Temperature, Rack Equipment Temperature Difference, RCI ( Rack Cooling Index ), RTI ( Return Temperature Index ), RHI ( Rack Humidity Index ), RPI ( Rack Pressure Index ), RAI ( Rack Airflow Index )
- Power analysis report for optimizing data center energy management – including power usage, power load, power cost, CO2 cost, power capacity and trends
- Exceed threshold alert through SMTP and System log
- 1024 line event log
- System log provision
- Two-level password security
- Strong security features include password protection and advanced encryption technologies – 128 bit SSL



Overall Rack Cooling Effectiveness



Power Control

\* Not all functions are supported by all eco PDU PE models. Please visit [www.aten.com](http://www.aten.com) for more details.

## Functions

			Server Version	Client Version
Energy	Dash Board	Real-time monitor of power usage, temperature and humidity	•	•
	Power Control	Monitor PDU status and control power outlets	•	•
	Group Control	Control power outlet by group	•	•
	Power Analysis	Power usage analysis by hour, day, month or quarter year	•	
	Thermal Analysis	Thermal analysis by hour, day, month or quarter year	•	
User	Account	Account management, access rights by function, device and group	•	
Device	Zone Define	Define data center zone	•	
	Rack Install	Install server rack in data center	•	
	Device Setup	Setup PDU or Energy Box in data center	•	
	Define Data Group	Define data group for report analysis, group control and schedule control	•	
	In-Synergy Gateway	Support external gateway for CT meter	•	
System	Sys Settings	System parameters, SNMP and SMTP Settings	•	
	Maintenance	PDU and Energy Box firmware upgrade	•	
	Database	Database settings, capacity management, import/export, configuration, backup/restore	•	
	Task	Scheduling group outlet control and configure backup	•	
	Billing	Electricity billing report	•	
Log	System Log	View system log	•	
	Log Options	Log settings	•	
	Events	Event settings	•	
















## Hardware Requirements

	Server Version	Client Version
Operating System	Windows 7 / Windows Server 2003 and later	Windows 7 / Windows Server 2003 and later
CPU	2.5 GHz Quad Core	2.0 GHz Dual Core
Display	Larger than 1024 x 768	Larger than 1024 x 768
Memory	4 GB	2 GB
Disk	500 GB	100 GB
Network	10/100 Mbps Ethernet	10/100 Mbps Ethernet














## System Parameters

	Server Version
(Max) Accounts	128
Concurrent Logins	8
(Max) PDUs	2500
Data Center Layouts	45 x 30 / 72 x 48 / 90 x 60
(Max) Racks	1250
(Max) Zones	128
Power Report History	At least 3 years
Real Time Dashboard Data	300 GB

## Optional Accessories

Type	Part No.	Description	Images
Environment Sensors	EA1140	Temperature Sensor	
	EA1240	Temperature & Humidity Sensor	
	EA1340	Differential Pressure & Temperature	
Door Sensors	EA1440	Photo Door Sensor	
	EA1441	Inductive Proximity Door Sensor	
	EA1442	Reed Door Sensor	
Cable Holders	2X-EA07	Lok-U-Plug Cable Holder (10 pcs per pack)	
	2X-EA08	Lok-U-Plug Installation Tool (4 pcs per pack)	
	2X-EA10	C14 EZ-Lok Plug Connector	
	2X-EA11	C20 EZ-Lok Plug Connector	
Mounting Kits	2X-015G	Double Mount Rail	
	2X-016G	Slide Rail Kit	
	2X-017G	Button Mount Kit	
	2X-018G	Side Panel Mount Kit	
	2X-019G	Side Panel Double Mount Kit	

## Available Power Outlets & Input Plugs

Power Outlets	
IEC 60320 C13	
IEC 60320 C19	
NEMA 5-15R	 NEMA 5-15R
NEMA 5-20R	 NEMA 5-20R
Input Plugs	
IEC 60320 C14	
IEC 60320 C20	
IEC 60309 32A	
NEMA 5-15P	 NEMA 5-15P
NEMA 5-20P	 NEMA 5-20P
NEMA L5-30P	 NEMA L5-30P 30 Amps 125 Volts
NEMA 6-15P	 NEMA 6-15P
NEMA 6-20P	 NEMA 6-20P
NEMA 6-30LP	 NEMA 6-30LP





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