

ECO PDU Power Distribution Unit

PE6108/PE6208/PE8108/PE8208

ATEN has developed a new generation of green energy power distribution units (PDUs) to effectively increase the efficiency of data center power usage. The PE6108 / PE6208 / PE8108 and PE8208 eco PDUs are intelligent PDUs that contain 8 AC outlets and are available in various IEC or NEMA socket configurations. They provide secure, centralized, intelligent, power management (power on, off, cycle) of data center IT equipment (servers, storage systems, KVM switches, network devices, serial data devices, etc.), as well as the ability to monitor the center's health environment via sensors*.

eco PDUs offer remote power control combined with real-time power measurement - allowing you to control and monitor the power status of devices attached to the PDUs, either at the PDU device or outlet level, from practically any location via a TCP/IP connection.

eco PDU supports any 3rd party v3 SNMP Manager Software and eco DC (Energy Management Software). eco DC provides you with an easy method for managing multiple devices, offering an intuitive and user-friendly Graphical User Interface that allows you to configure a PDU device and monitor power status of the equipment connected to it. With eco DC, the Sensor-enabled eco PDU also offers comprehensive power analysis reports which can separate by departments and locations, providing precise measurements of current, voltage, power and watt-hour in a real-time display.

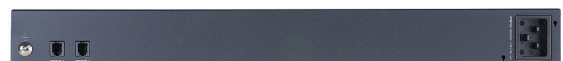
With its advanced security features and ease of operation, the eco PDU is the most convenient, most reliable, and most cost effective way to remotely manage power access for multiple computer installations and allocate power resources in the most efficient way possible.

Note: Sensors are optional accessories. A sensor-enabled installation is required to generate a more complete energy-efficient data and chart. Higher sensor installation density is helpful to generate more accurate data.

Front View



Rear View



Features

Power Distribution

- Space saving 1U rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 digit 7-segment front panel LED shows Current / IP Address
- Remote users can monitor outlet status via web pages on their browsers
- Safe shutdown support
- Separate power for the unit's own power and its power outlets. The user interface is still accessible even when an overload condition trips the devices' circuit breaker

Remote Access

- Remote power control via TCP/IP and a built in 10/100 Ethernet port
- Network Interfaces: TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, 10Base-T/100Base-TX, auto sense, Ping, and Telnet
- eco PDU Power Management software – eco DC
- Supports SNMP Manager V3

Operation

- Local and Remote power outlet control (On, Off, Power Cycle) by individual outlets
- Power-on sequencing – users can set the power on sequence and delay time for each port to allow equipment to be turned on in the proper order
- Easy setup and operation via a browser-based user interface
- Multibrowser support (IE, Firefox, Chrome, Safari)
- RTC support to keep the timer running during times of no power.
- Supports up to 8 user and 1 administrator accounts

Management

- Power status measurement at the PDU or Outlet level
- LED indicators for current and IP address at the PDU device and/or Outlet levels
- Real-time current, voltage, and kWh displayed in a browsed-based UI for monitoring at the PDU level (PE6108 / PE6208) and at the outlet level (PE8108 / PE8208)
- Current and voltage threshold setting
- Naming support for outlets
- User outlet access assignment on an outlet-by-outlet basis.
- Event logging and syslog support
- Upgradeable firmware
- Multilanguage support: English, German, Traditional Chinese, Simplified Chinese, Japanese, French, Spanish, Italian

Security

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

eco DC Energy Management Software

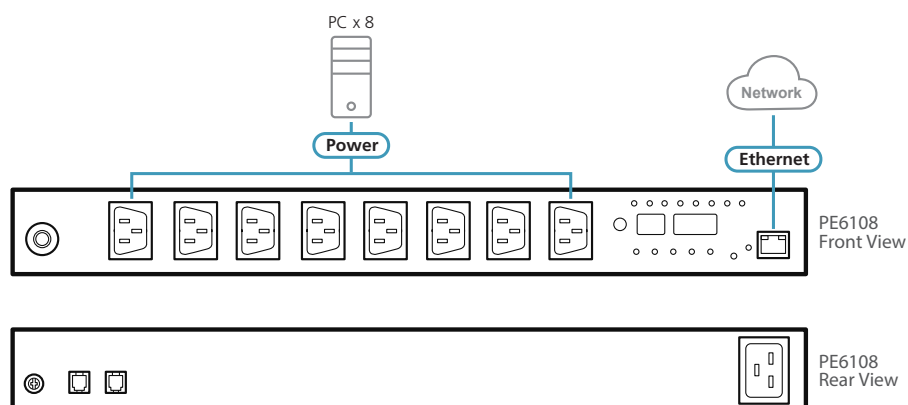
- Automatic discovery of all PE devices within the same intranet
- Remote real-time power measurement and monitoring
- Remote real-time power outlet management*
- Remote real-time environment sensor monitoring
- Plotting/Monitoring of all PE devices
- Exceed threshold alert through SMTP and Syslog
- Power Analysis Report

Features available only on firmware-upgraded models with -ATB part number

- Supports SMPTS, IPv6, Modbus (Over TCP/IP), Auto Ping, TLS1.2, SSH
- Supports IEEE 802.1X
- Authentication: LDAP, TACACS+
- UI – heartbeat, schedule control, mail control, and setting rule

Highlights

Remote Power Control	By simply clicking a button on the UI, administrators can power control the connected IT equipment with ease. There is no longer any need to move around the data center turning equipment on and off.
Power Management	eco PDU products are designed with up to 8 outlets for easy data center management. Each outlet can be individually controlled so that users can set the power on/off sequence and delay time for each outlet separately. In addition, On/Off scheduling allows administrators to configure start and shutdown.
Overcurrent Protection	Built-in overcurrent protection and recovery saves your money by eliminating costly onsite service calls. With eco PDU products, you have the ability to access your data center any time and deal with any situation that may occur – entirely immediately and effectively.
Real-time Monitoring	With PDU/Outlet level metering, IT administrators can easily monitor the real-time current, voltage, kWh, power consumption, and circuit breaker status of all connected IT equipment from a remote console.
Rack Environment Monitoring	The eco PDU supports external, environment sensors that allow administrators to monitor temperature, humidity, and differential pressure of the rack environment from just about anywhere in the world.
Early Warning Notification	The eco PDU permits data center administrators to set custom thresholds. When levels exceed the user defined thresholds, designated recipients can receive alarm notifications via SMTP email, SNMP traps, or Syslog. An audio alarm can also sound and lights will blink at the local site.
Easy Operation – eco DC	With eco DC energy management software support, the Sensor-enabled eco PDU offers an intuitive and user-friendly Graphical User Interface – allowing you to configure a PDU device and monitor power status of the equipment connected to it via an ease-to-use interface.
External Authentication Support	The eco PDU supports login authorization management from external sources – RADIUS.
Advanced Security	<ul style="list-style-type: none"> • Secure 128-bit SSL encryption • Two-level password security • Login Failures – The number of consecutive failed login attempts and the time a remote computer must wait before trying again can be set • Configurable user permissions for outlet level access and control
Event Log Support	The eco PDU supports event log function that records all the events that take place on – including user login/logout, timeout, outlet ON/OFF/Reboot by user, user add/delete/changed, eco PDU add/remove and FW upgrade.



Specifications

	PE6108A	PE6108B	PE6108G
Electrical			
Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Input Current	15A Max; 12A (UL de-rated)	15A Max; 12A (UL de-rated)	10A Max
Input Frequency	50 - 60 Hz		
Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C20
Input Power	1800 VA (Max); 1440 VA (UL de-rated)	3120 VA (Max); 2496 VA (UL de-rated)	2300 VA (Max)
Outlet Type	Total: 8 x NEMA 5-15R	Total: 8 x IEC 60320 C13	Total: 8 x IEC 60320 C13
Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max); 12A (UL de-rated)	C13: 15A (Max); 12A (UL de-rated)	C13: 10A (Max)
Maximum Output Current (Bank)	15A (Max); 12A (UL de-rated)	15A (Max); 12A (UL de-rated)	10A (Max)
Maximum Output Current (Total)	15A (Max); 12A (UL de-rated)	15A (Max); 12A (UL de-rated)	10A (Max)
Breakers	1 x 15A Non-Fuse Breaker		
Metering	Bank level Current, Voltage, VA , PF and KWh Monitoring		
Outlet Switching	Yes		
Environment Sensor Ports	2		
Metering Accuracy	Voltage Range: 100VAC - 250VAC +/-1% Power Range: 100W – Max. Capacity +/- 2% Current Range: 0.1A - 1A +/- 0.1A, 1A - 20A +/-1%		
Physical Properties			
Dimensions (L x W x H)	43.24 x 22.04 x 4.40 cm		
Weight	2.77 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, Others by Request	FCC, Others by Request	CE, Others by Request
Safety Verification	UL, Others by Request	UL, Others by Request	CE-LVD, Others by Request

Specifications

	PE6208A	PE6208B	PE6208G
Electrical			
Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Input Current	20A Max; 16A (UL de-rated)	20A Max; 16A (UL de-rated)	16A Max
Input Frequency	50 - 60 Hz		
Input Connection	PE6208A-ATA-A : NEMA 5 -20P PE6208A-ATA-J : NEMA L5 -20P	PE6208B-ATA-B : NEMA 6 -20P PE6208B-ATA-J : NEMA L6 -20P	IEC 60320 C20
Input Power	2400 VA (Max); 1920 VA (UL de-rated)	4160 VA (Max); 3328 VA (UL de-rated)	
Outlet Type	Total : 8 x NEMA 5-20R	Total : 7 x IEC 60320 C13 + 1 x IEC 60320 C19	Total : 7 x IEC 60320 C13 + 1 x IEC 60320 C19
Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max); 16A (UL de-rated)	C13: 15A (Max); 12A (UL de-rated)	C13: 10A (Max)
		C19: 20A (Max); 16A (UL de-rated)	C19: 16A (Max)
Maximum Output Current (Bank)	20A (Max); 16A (UL de-rated)	20A (Max); 16A (UL de-rated)	16A (Max)
Maximum Output Current (Total)	20A (Max); 16A (UL de-rated)	20A (Max); 16A (UL de-rated)	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		
Outlet Switching	Yes		
Environment Sensor Ports	2		
Metering Accuracy	Voltage Range: 100VAC - 250VAC +/-1% Power Range: 100W – Max. Capacity +/- 2% Current Range: 0.1A - 1A +/- 0.1A, 1A - 20A +/-1%		
Physical Properties			
Dimensions (L x W x H)	43.24 x 22.04 x 4.40 cm		
Weight	2.79 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, Others by Request	FCC, Others by Request	CE, Others by Request
Safety Verification	UL, Others by Request	UL, Others by Request	CE-LVD, Others by Request

Specifications

	PE8108A	PE8108B	PE8108G
Electrical			
Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Input Current	15A Max; 12A (UL de-rated)	15A Max; 12A (UL de-rated)	10A Max
Input Frequency	50 - 60 Hz		
Input Connection	NEMA 5-15P	NEMA 6-15P	IEC 60320 C14
Input Power	1800 VA (Max); 1440 VA (UL de-rated)	3120 VA (Max); 2496 VA (UL de-rated)	2300 VA (Max)
Outlet Type	Total: 8 x NEMA 5-15R	Total: 8 x IEC 60320 C13	Total: 8 x IEC 60320 C13
Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Output Current (Outlet)	NEMA 5-15R: 15A (Max); 12A (UL de-rated)	C13: 15A (Max); 12A (UL de-rated)	C13: 10A (Max)
Maximum Output Current (Bank)	15A (Max); 12A (UL de-rated)	15A (Max); 12A (UL de-rated)	10A (Max)
Maximum Output Current (Total)	15A (Max); 12A (UL de-rated)	15A (Max); 12A (UL de-rated)	10A (Max)
Breakers	1 x 15A Non-Fuse Breaker		
Metering	Outlet level Current, Voltage, VA , PF and KWh Monitoring		
Outlet Switching	Yes		
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)	43.24 x 22.04 x 4.40 cm		
Weight	2.75 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, Others by Request	FCC, Others by Request	CE, Others by Request
Safety Verification	UL, Others by Request	UL, Others by Request	CE-LVD, GOST, Others by Request

Specifications

	PE8208A	PE8208B	PE8208G
Electrical			
Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Input Current	20A Max; 16A (UL de-rated)	20A Max; 16A (UL de-rated)	16A Max
Input Frequency	50 - 60 Hz		
Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20
Input Power	2400 VA (Max); 1920 VA (UL de-rated)	4160 VA (Max); 3328 VA (UL de-rated)	3680 VA (Max)
Outlet Type	Total : 8 x NEMA 5-20R	Total : 7 x IEC 60320 C13 + 1 x IEC60320 C19	Total : 7 x IEC60320 C13 + 1 x IEC60320 C19
Nominal Output Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Output Current (Outlet)	NEMA 5-20R: 20A (Max); 16A (UL de-rated)	C13: 15A (Max); 12A (UL de-rated) C19: 20A (Max); 16A (UL de-rated)	C13: 10A (Max) C19: 16A (Max)
Maximum Output Current (Bank)	20A (Max); 16A (UL de-rated)	20A (Max); 16A (UL de-rated)	16A (Max)
Maximum Output Current (Total)	20A (Max); 16A (UL de-rated)	20A (Max); 16A (UL de-rated)	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 Switching	Yes		
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)	43.24 x 22.04 x 4.40 cm		
Weight	2.84 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, Others by Request	FCC, Others by Request	CE, Others by Request
Safety Verification	UL, Others by Request	UL, Others by Request	CE-LVD, GOST, Others by Request

