PE6108/PE6208/PE8108/PE8208

eco PDU Power Distribution Unit

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 Sensors (Energy Management Software). eco Sensors 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 Sensors, 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.

* 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.

PE8208A front view

PE8208A rear view

Model	Power Cord (IEC C19 to)	Outlets	Monitoring Level	Amps	
				Per Port	Total
PE6108A	NEMA 5-15P	NEMA 5-15R	PDU	12A	12A
PE6108B	NEMA 6-15P	IEC C13	PDU	12A	12A
PE6108G	IEC C14	IEC C13	PDU	10A	10A
PE6208A	NEMA 5-20P	NEMA 5-20R	PDU	16A	16A
PE6208B	NEMA 6-20P	IEC C13 / C19	PDU	12A / 16A	16A
PE6208G	IEC C20	IEC C13 / C19	PDU	10A / 16A	16A
PE8108A	NEMA 5-15P	NEMA 5-15R	Outlet	12A	12A
PE8108B	NEMA 6-15P	IEC C13	Outlet	12A	12A
PE8108G	IEC C14	IEC C13	Outlet	10A	10A
PE8208A	NEMA 5-20P	NEMA 5-20R	Outlet	16A	16A
PE8208B	NEMA 6-20P	IEC C13 / C19	Outlet	12A / 16A	16A
PE8208G	IEC C20	IEC C13 / C19	Outlet	10A / 16A	16A

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
- eco PDU Power Management software – eco Sensors
- 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 Sensors 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

Benefits

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 with blink at the local site.
Easy Operation – eco Sensors	With eco Sensors 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	• 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.

Optional Accessories

Sensors

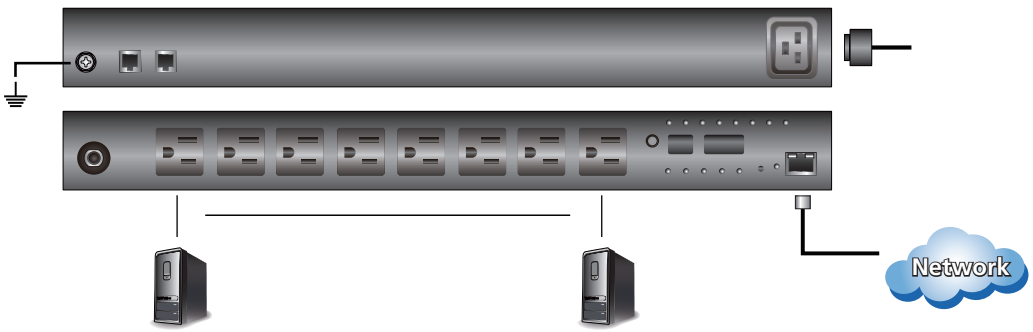
Part No.	Sensor
EA1140	Temperature
EA1240	Temperature / Humidity
EA1340	Differential Pressure / Temperature

Cable Holders

For added safety, use ATEN Lok-U-Plug cable holders to secure the cables from your attached devices in place on the eco PDU unit. Use only the ATEN Lok-U-Plug cable holders that have been specifically designed to work with the eco PDU. Using any other kind of cable securing device could be highly dangerous.

Part No.	Cable Holder
0X12-0017-300G	Lok-U-Plug *Patent Pending!*

Note: Sensor probes and Cable Holders are optional accessories. A 4-sensor installation is required to generate a complete energy-efficient data and chart. Higher sensor installation density is helpful to generate more accurate data. 8-port models have 2 sensor ports built-in. All models come with a 10 foot input power cord.



Specification

Function			PE6108A / PE8108A	PE6208A / PE8208A	PE6108B / PE8108B	PE6208B/ PE8208B	PE6108G / PE8108G	PE6208G/ PE8208G
Power Outlets	Direct		8					
Connectors	Power Inlet		1 x IEC 320 C20					
	Power Outlets	NEMA	8 x NEMA 5-15R	8 x NEMA 5-20R	NA			
		IEC	NA		8 x IEC 320 C13	7 x IEC 320 C13 (Ports 2–8); 1 x C19 (Port 1)	8 x IEC 320 C13	7 x IEC 320 C13 (Ports 2–8); 1 x C19 (Port 1)
	Sensor		2 x RJ-11					
	LAN		1 x RJ-45 (F)					
LEDs	Outlet Status		8 (Orange)					
	Selections		1-digit 7-segment (Orange)					
	PDU Current / Outlet Current / IP		3 (Green)					
	Current / IP		3-digit 7-segment (Orange)					
	Power		1 (Blue)					
	10/100 Mbps		1 (Orange / Green)					
	Link		1 (Green)					
	Sensor		2 (Green)					
Switches	Reset		1 x Semi-recessed Pushbutton					
	Power		1 x Non-fuse Breaker					
I/P Rating			100–120V~; 50/60Hz; 12A	100–120V~; 50/60Hz; 16A	100–240V~; 50/60Hz; 12A	100–240V~; 50/60Hz; 16A	100–240V~; 50/60Hz; 10A	100–240V~; 50/60Hz; 16A
Load Capacity			1440W	1920W	2880W	3840W	2400W	3840W
O/P Rating	Per Port		100–120V~; 50/60Hz; 12A	100–120V~; 50/60Hz; 16A	100-240V; 50/60Hz, 12A	100-240V; 50/60Hz, 12A (C13) 100-240V~; 50/60Hz, 16A (C19)	100-240V; 50/60Hz, 10A	100-240V; 50/60Hz, 10A (C13) 100-240V~; 50/60Hz, 16A (C19)
	Total		100–120V~; 50/60Hz; 12A	100–120V~; 50/60Hz; 16A	100-240V~; 50/60Hz, 12A	100-240V~; 50/60Hz, 16A	100-240V~; 50/60Hz, 10A	100-240V~; 50/60Hz, 16A
Environment	Operating Temperature		0–50°C					
	Storage Temperature		-20–60°C					
	Humidity		0–80% RH Non-condensing					
Physical Properties	Housing		Metal					
	Weight		2.77 kg/2.80 kg	2.77 kg/2.82 kg	2.82 kg/2.87 kg	2.79 kg/2.87 kg	2.82 kg/2.87 kg	2.79 kg/2.87 kg
	Dimensions (L x W x H)		43.24 x 21.93 x 4.40 cm					

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