ECO PDU
PE6216/PE6324

● As part of its NRGence line, ATEN has developed a new generation of green energy power distribution units (PDUs) to effectively increase the efficiency of data center power usage. The NRGence PE6216 / PE6324 eco PDU is an intelligent PDU that contains 16 or 24 AC outlets and are available in various IEC or NEMA socket configurations.

It provides 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*.

The PE6216 / PE6324 eco PDU offers 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.

The power status of each outlet can be set individually, allowing users to switch each device On/Off. The eco PDU also offers comprehensive power analysis reports – providing precise measurements of current, voltage, power and watt-hour in a real-time display.

NRGence eco PDU supports any 3rd party v1, v2 & v3 SNMP Manager Software and ATEN eco Sensors (eco PDU Manager 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 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.

PE6216B

PE6324G

* Sensors are optional accessories. A sensor-enabled installation is required to generate a more complete energy-efficient data and chart.

Model	Inlet	Outlets	Monitoring Level	Amps	
				Per Port	Total
PE6216A	IEC 320 C20	14 x NEMA 5-15R 2 x NEMA 5-20R	PDU	12A/16A	16A (UL), 20A (Max.)
PE6216B	IEC 320 C20	14 x IEC 320 C13 2 x IEC 320 C19	PDU	12A/16A	16A (UL), 20A (Max.)
PE6216G	IEC 320 C20	14 x IEC 320 C13 2 x IEC 320 C19	PDU	10A/15A	I: 16A, O: 15A
PE6324B	NEMA L6-30P	21 x IEC 320 C13 3 x IEC 320 C19	Bank	12A/15A	24A (UL), 30A (Max)
PE6324G	IEC 60309 32A	21 x IEC 320 C13 3 x IEC 320 C19	Bank	10A/15A	I: 32A, O: 30A

Feature

Power Distribution
- Space saving 0U rack mount design with rear mounting
- IEC or NEMA outlet models
- 3 x 7-segment front panel LED shows Current / IP Address for PDU / Bank
- Remote users can monitor PDU/Bank 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 Protocols: TCP/IP, UDP, HTTP, HTTPS, SSL, SMTP, DHCP, NTP, DNS, auto sense, Ping,Telnet
- eco PDU Power Management software – eco Sensors
- Supports SNMP Manager V1, V2 & V3

Operation
- Local and Remote power outlet control (On, Off, Power Cycle) by individual outlets
- Supports multiple power control methods – Wake on LAN, System After AC Back, Kill the Power
- 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, Mozilla, Firefox, Chrome, Safari, Opera, Netscape)
- RTC support to keep the timer running during times of no power.
- Up to 8 user accounts and 1 administrator account.

Management
- Power status measurement at the PDU/Bank level
- LED indicators for current and IP address at the PDU device and/or Bank levels
- Real-time aggregate current, voltage, and power and power dissipation displayed in a browser-based UI for monitoring at the PDU level (PE6216) and at the bank level (PE6324)
- Environment monitoring – supports external temperature / humidity / Differential Pressure sensors for rack environment monitoring
- 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, Traditional Chinese, Simplified Chinese, Japanese, German, Italian, Spanish, French, Russian

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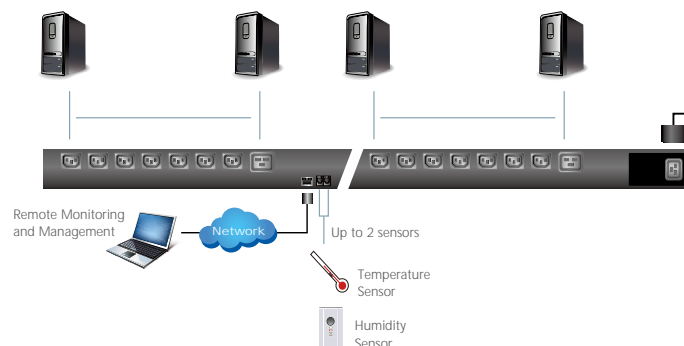- Remote authentication support: RADIUS

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 environment sensor monitoring
- Plotting/Monitoring of all PE devices
- Exceed threshold alert through SMTP and System log
- Power Analysis Report

*eco Sensors is designed to work with NRGence™ PDUs, and is bundled with all PE series packages.

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 24 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.
Real-time Monitoring	With PDU/Bank 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.

Remote Monitoring and Management

Network

Up to 2 sensors

Temperature Sensor

Humidity Sensor

Specifications

Function			PE6216A	PE6216B	PE6216G	PE6324B	PE6324G
Power Outlets	Direct		16			24	
Connectors	Power Inlet		1 x IEC 320 C20			1 x NEMA L6-30P (cord)	1 x IEC 60309 (cord)
	Power Outlets	NEMA	14 x NEMA 5-15R; 2 x NEMA 5-20R	NA			
		IEC	NA	14 x IEC 320 C13 2 x IEC 320 C19		21 x IEC 320 C13 3 x IEC 320 C19	
	Sensor		2 x RJ-11 Female				
	LAN		1 x RJ-45 Female				
LEDs	Outlet Status		16 (Orange)	16 (Orange)	16 (Orange)	24 (Orange)	24 (Orange)
	PDU Current / IP		2 (Green)				
	Current / IP		3-digit 7-segment (Orange)				
	Power		1 (Blue)				
	LAN	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			2 x UL 489 Breaker	
	Select		1 x Pushbutton				
I/P Rating			100–120V~; 50-60Hz; 16A (UL), 20A (Max.)	100–240V~; 50-60Hz; 16A (UL), 20A (Max.)	100–240V~; 50-60Hz; 16A (Max.)	100–240V~; 50-60Hz; 24A (UL), 30A (Max.)	100–240V~; 50-60Hz; 32A (Max.)
Power Capacity			2.4 kW	4.2 kW	3.7 kW	6.2 kW	7.4 kW
O/P Rating	Per Port	NEMA 5-15R/ IEC C13	100–120V~; 50-60Hz; 12A/15A	100–240V~; 50-60Hz; 12A/15A	100–240V~; 50-60Hz; 10A	100–240V~; 50-60Hz; 12A/15A	100–240V~; 50-60Hz; 10A
		NEMA 5-20R/ IEC C19	100–120V~; 50-60Hz; 16A/20A	100–240V~; 50-60Hz; 16A/20A	100–240V~; 50-60Hz; 15A	100–240V~; 50-60Hz; 12A/15A	100–240V~; 50-60Hz; 15A
	Total		100–120V~; 50-60Hz; 16A (UL), 20A (Max.)	100–240V~; 50-60Hz; 16A (UL), 20A (Max.)	100–240V~; 50-60Hz; 15A (Max.)	100–240V~; 50-60Hz; 24A(UL), 30A (Max.)	100–240V~; 50-60Hz; 30A (Max.)
Environment	Operating Temperature		0 to 50°C		0 to 40°C	0 to 50°C	0 to 40°C
	Storage Temperature		-20 to 60°C				
	Humidity		0–80% RH Non-condensing				
Physical Properties	Housing		Metal				
	Weight		3.70 kg			6.30 kg	
	Dimensions (L x W x H)		132.48 x 6.60 x 4.40 cm	132.48 x 6.60 x 4.40 cm		177.50 x 6.60 x 4.40 cm	

Optional Equipments

Environment Sensors

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

Cable Holders

Part No.	Description
2X-EA07	Lok-U-Plug Cable Holder (10 pcs) *Patent Pending!*
2X-EA08	Lok-U-Plug Installation Tool (4 pcs)