

eco PDU

PE6216 / PE6324

ATEN has developed a new generation of green energy power distribution units (PDUs) to effectively increase the efficiency of data center power usage. The PE6216 / PE6324 eco PDUs are intelligent PDUs that contain 16 or 24 AC outlets and are available in various IEC or NEMA socket configurations.

The series 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*.

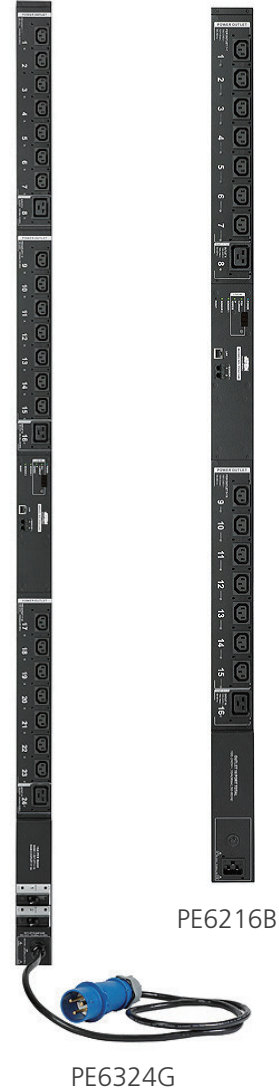
The PE6216 / PE6324 eco PDU offers remote power control combined with real-time power measurement - allowing users to control and monitor the power status of devices attached to the PDUs, either at the PDU device or outlet level, from practically any location via a TCP / IP connection.

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.

These eco PDUs support any 3rd party v1, v2 & v3 SNMP Manager Software and ATEN eco DC (Energy & DCIM Management Web GUI). eco DC provides an easy method for managing multiple devices, offering an intuitive and user-friendly GUI that allows users 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 delivers the 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.



Model	Inlet	Outlets	Monitoring Level	Amps	
				Per Port	Total
PE6216A	IEC 60320 C20	14 x NEMA 5-15R 2 x NEMA 5-20R	PDU	12A / 16A	16A (UL), 20A (Max.)
PE6216B	IEC 60320 C20	14 x IEC 60320 C13 2 x IEC 60320 C19	PDU	12A / 16A	16A (UL), 20A (Max.)
PE6216G	IEC 60320 C20	14 x IEC 60320 C13 2 x IEC 60320 C19	PDU	10A / 15A	I : 16A, O : 15A
PE6324B	NEMA L6-30P	21 x IEC 60320 C13 3 x IEC 60320 C19	Bank	12A / 15A	24A (UL), 30A (Max)
PE6324G	IEC 60309 32A	21 x IEC 60320 C13 3 x IEC 60320 C19	Bank	10A / 15A	I : 32A, O : 30A

Features

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
- Energy & DCIM Management Web GUI - eco DC
- Supports SNMP Manager V1, V2 & V3

Operation

- Local and Remote power outlet control (on / off / power cycle) by individual outlet
- 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, Firefox, Chrome, Safari, Opera, and 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
- Collects and displays current, voltage, and power consumption in real-time 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, and Russian

Security

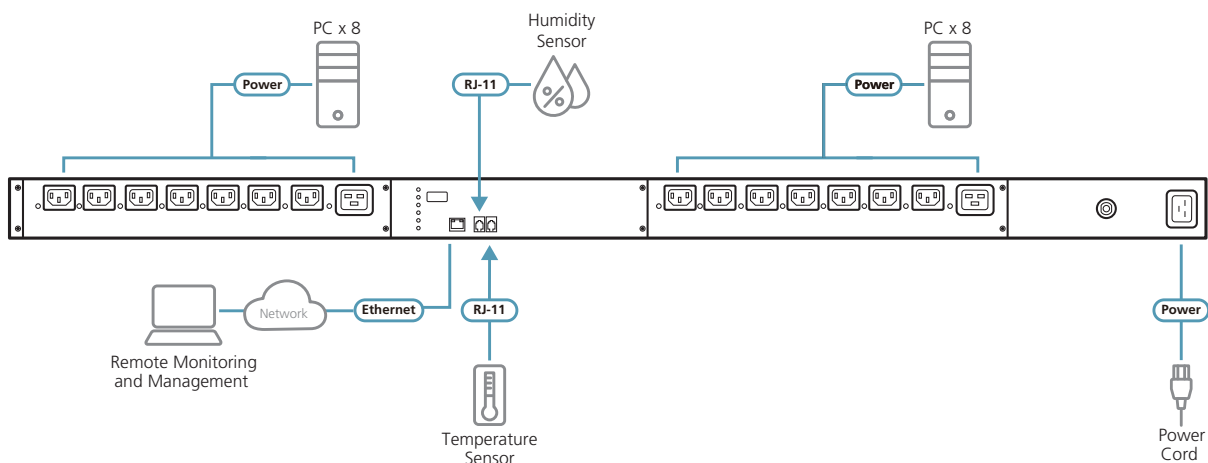
- Two-level password security
- Strong security features include strong password protection and advanced encryption technologies – 128 bit SSL
- Remote authentication support : RADIUS

eco DC Energy & DCIM Management Web GUI*

- 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 DC is designed to work with eco PDUs, and is bundled with all PE series packages.

Benefits

Remote Power Control	By simply clicking a button on the UI, administrators can control the power of 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, allowing 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 light with 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 GUI – allowing users 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 to record all the events having taken place, including user login / logout, timeout, outlet on / off / reboot by user, user being added / deleted / changed, eco PDU being added / removed and firmware upgrade.



Specifications

	PE6216A	PE6216B	PE6216G	PE6324B
Electrical				
Nominal Input Voltage	100 – 120 VAC	100 – 240 VAC	100 – 240 VAC	100 – 240 VAC
Maximum Input Current	20A (Max)	20A (Max)	16A (Max)	30A (Max)
Input Frequency	50 - 60 Hz			
Input Connection	NEMA 5-20P	NEMA 6-20P	IEC 60320 C20	For B Plug : NEMA L6-30P
Input Power	2400 VA (Max)	4160 VA (Max)	3680 VA (Max)	6240 VA (Max)
Outlet Type	Total: 14 x NEMA 5-15R + 2 x NEMA 5-20R Bank1-1: Outlet 1 – 8; 7 x NEMA 5-15R + 1 x NEMA 5-20R Bank1-2: Outlet 9 – 16; 7 x NEMA 5-15R + 1 x NEMA 5-20R	Total: 14 x IEC 60320 C13 + 2 x IEC 60320 C19 Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19 Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19	Total: 14 x IEC 60320 C13 + 2 x IEC 60320 C19 Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19 Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19	Total: 21 x IEC 60320 C13 + 3 x IEC 60320 C19 Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19 Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19 Bank2: Outlet 17 – 24; 7 x C13 + 1 x C19
Nominal Output Voltage	100 – 120 VAC	100 – 240 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)	C13: 15A (Max) C19: 15A (Max)
Maximum Output Current (Bank)	20A (Max)	20A (Max)	16A (Max)	15A (Max)
Maximum Output Current (Total)	20A (Max)	20A (Max)	16A (Max)	30A (Max)
Breakers	1 x 20A Non-Fuse Breaker	1 x 20A Non-Fuse Breaker	1 x 16A Non-Fuse Breaker	2 x 16A UL489 Breaker
Metering	Bank Level Current, Voltage, VA , PF and kWh Monitoring			
Outlet Switching	Yes			
Environment Sensor Ports	2			
Metering Accuracy	Voltage Range: 100 VAC ~ 250 VAC + / - 1 %; Power Range: 100 W ~ Maximum Capacity + / - 2 % Current Range: 0.1 A ~ 1 A + / - 0.1 A, 1 A ~ 20 A + / - 1 %			
Physical Properties				
Dimensions (L x W x H)	132.48 x 6.60 x 4.40 cm (52.16 x 2.6 x 1.73 in.)	132.48 x 6.60 x 4.40 cm (52.16 x 2.6 x 1.73 in.)	132.48 x 6.60 x 4.40 cm (52.16 x 2.6 x 1.73 in.)	177.50 x 6.60 x 4.40 cm (69.88 x 2.6 x 1.73 in.)
Weight	3.73 kg (8.22 lb)	3.73 kg (8.22 lb)	3.73 kg (8.22 lb)	6.12 kg (13.48 lb)
Power Cord Length	3 m	3 m	3 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	0 – 50 °C / -20 – 60 °C
Humidity (Operating and Storage)	0 – 80 % RH, Non-Condensing			
Compliance				
EMC Verification	FCC, Others by Request	FCC, Others by Request	CE, C-Tick, Others by Request	FCC, Others by Request
Safety Verification	cTUVus, PSE, Others by Request	cTUVus, PSE, Others by Request	TUV-CB, EAC, Others by Request	cTUVus, PSE, Others by Request

Optional Equipments

Environment Sensors

Part No.	Sensor
EA1140	Temperature
EA1240	Temperature / Humidity
EA1340	Differential Pressure / Temperature
EA1540	Capacitive Leakage Sensor

Cable Holders

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

Product information is subject to change without prior notice.

ATEN International Co., Ltd.

3F., No.125, Sec. 2, Datung Rd., Sijhih District., New Taipei City 221, Taiwan
 Phone: 886-2-8692-6789 Fax: 886-2-8692-6767
 www.aten.com E-mail: marketing@aten.com

Released: 04/2022 V5.0

© Copyright 2022 ATEN® International Co. Ltd.
 ATEN and the ATEN logo are registered trademarks of ATEN International Co., Ltd.
 All rights reserved. All other trademarks are the property of their respective owners.

