Simply Better Connections

# PE5216

20A/16A 16-Outlet Metered eco PDU

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 PE5216 eco PDU is an intelligent PDU that contains 16 AC outlets and is available in various IEC or NEMA socket configurations. It provides the ability to monitor the center's health environment via sensors*.

NRGence eco PDU offers real-time power measurement – allowing you to monitor the power status of devices attached to the PDUs, either at the PDU device or Bank level, from practically any location via a TCP/IP connection. It 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 monitor power status 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.

## 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
- 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

- 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
- Environment monitoring – supports external temperature / humidity / Differential Pressure sensors for rack environment monitoring
- Current and voltage threshold setting
- Naming support for outlets
- 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

| Model | Inlet | Outlets | Monitoring Level | Amps | |
|---|---|---|---|---|---|
| | | | | Per Port | Total |
| PE5216A | IEC 320 C20 | 14 x NEMA 5-15R<br>2 x NEMA 5-20R | PDU | 12A/16A | 16A (UL), 20A (Max.) |
| PE5216B | IEC 320 C20 | 14 x IEC 320 C13<br>2 x IEC 320 C19 | PDU | 12A/16A | 16A (UL), 20A (Max.) |
| PE5216G | IEC 320 C20 | 14 x IEC 320 C13<br>2 x IEC 320 C19 | PDU | 10A/15A | I: 16A. O: 15A |

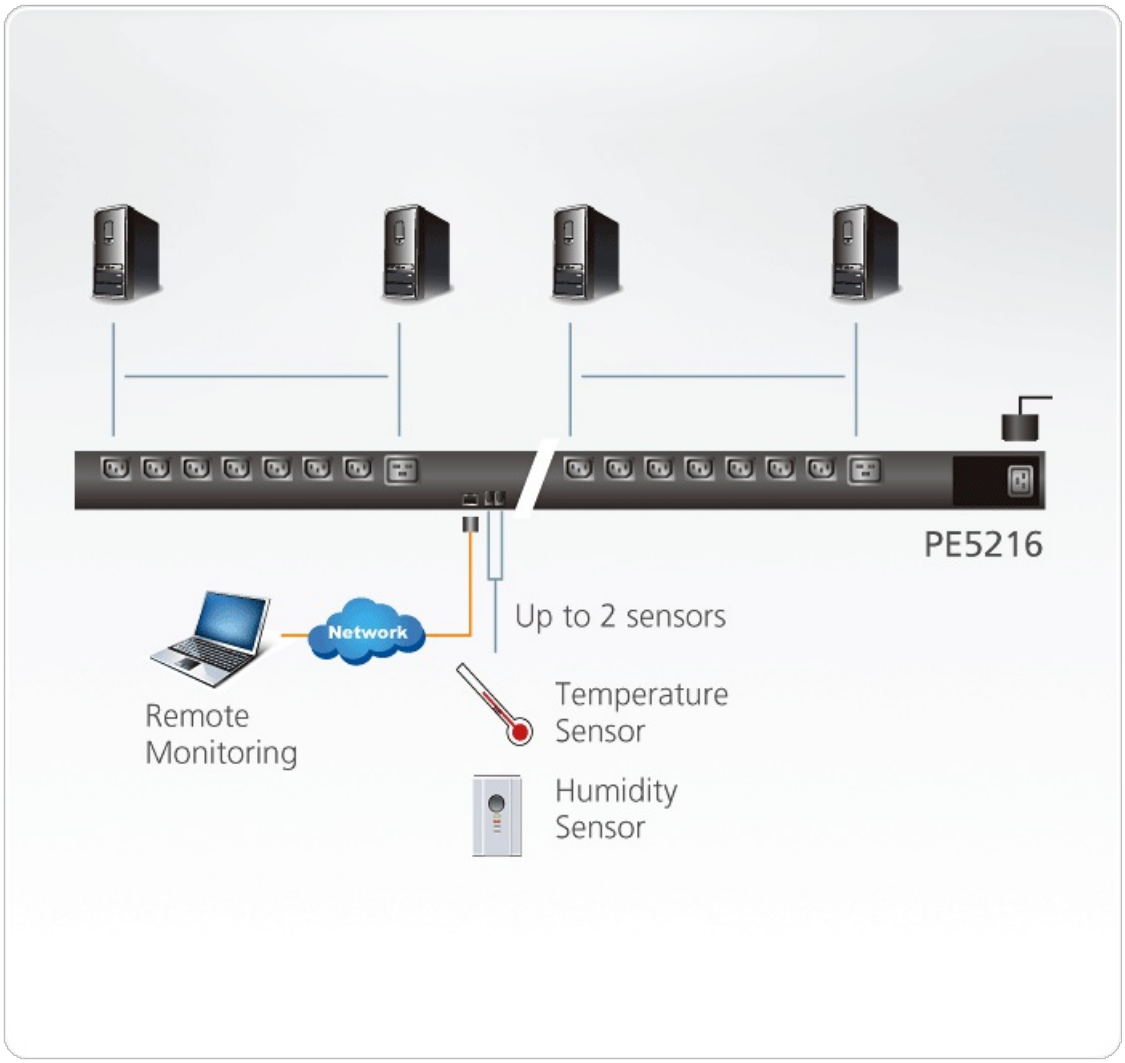
## Specification

| 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 | Total: 14 x NEMA 5-15R + 2 x NEMA 5-20R<br>Bank1-1: Outlet 1 – 8; 7 x NEMA 5-15R + 1 x NEMA 5-20R<br>Bank1-2: Outlet 9 – 16; 7 x NEMA 5-15R + 1 x NEMA 5-20R | Total: 14 x IEC320 C13 + 2 x IEC320 C19<br>Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19<br>Bank1-2: Outlet 9 – 16; 7 x C13 + 1 x C19 | Total: 14 x IEC320 C13 + 2 x IEC320 C19<br>Bank1-1: Outlet 1 – 8; 7 x C13 + 1 x C19<br>Bank1-2: 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)<br>NEMA 5-20R: 20A(Max) | C13: 15A(Max)<br>C19: 20A(Max) | C13: 15A(Max)<br>C19: 20A(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 |
| Metering Accuracy | Voltage Range: 100VAC ~ 250VAC +/-1%<br>Power Range: 100W ~ Maximum Capacity +/- 2%<br>Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1% | Voltage Range: 100VAC ~ 250VAC +/-1%<br>Power Range: 100W ~ Maximum Capacity +/- 2%<br>Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1% | Voltage Range: 100VAC ~ 250VAC +/-1%<br>Power Range: 100W ~ Maximum Capacity +/- 2%<br>Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1% |
| Physical Properties | | | |
| Dimensions (L x W x H) | 132.80 x 6.60 x 4.40 cm (52.28 x 2.6 x 1.73 in.) | 132.80 x 6.60 x 4.40 cm (52.28 x 2.6 x 1.73 in.) | 132.80 x 6.60 x 4.40 cm (52.28 x 2.6 x 1.73 in.) |
| Weight | 3.47 kg ( 7.64 lb ) | 3.47 kg ( 7.64 lb ) | 3.47 kg ( 7.64 lb ) |
| 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 |
| Note | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. | | |

**Diagram**




**ATEN International Co., Ltd.**
3F., No.125, Sec. 2, Datong 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

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