

PE8216/PE8324

ECO PDU

- As part of its NRGence line, ATEN has developed a new generation of green energy power distribution units (eco PDUs) to effectively increase the efficiency of data center power usage. The NRGence PE8216 / PE8324 eco PDUs are intelligent PDUs that contain 16, or 24 AC outlets and are available in various IEC socket configurations. Models in the advanced PE8 ranges feature NRGence's proactive overload protection, which automatically powers off the last outlet that caused the current overload.

NRGence eco PDUs 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*

NRGence 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, bank, or outlet level, depending on the model, 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 which can separate departments and locations, providing precise measurements of current, voltage, power and watt-hour in a real-time display. Installation and operation is fast and easy: plugging cables into their appropriate ports and user-friendly browser-based configuration and management is all that is entailed. Since the eco PDU firmware is upgradeable over the Net, you can stay current with the latest functionality improvements simply by downloading updates from our website as they become available.

NRGence eco PDU supports any 3rd party V3 SNMP Manager Software and NRGence 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.

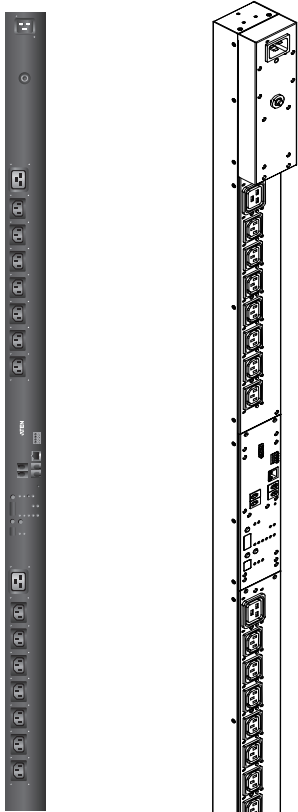
With its advanced security features and ease of operation, the eco PDU is the most convenient, most reliable, and most cost effective way to remotely manage power access for multiple computer installations and allocate power resources in the most efficient way possible.

*** Note:**

1. Sensors are optional accessories. A sensor-enabled installation is required to generate a more complete energyefficientdata and chart. Higher sensor installation density is helpful to generate more accurate data.
2. eco PDUs are primarily designed for access via Intranet; extra network security protection is suggested for Internet access usage.

PE8216B ECO PDU

Description:	100-240V 20A 0U 16-Outlet PDU
Function:	16-Outlet Metering, 16-Outlet Switching Control & 1-Bank Metering
Input Power Plug:	NEMA 6-20P
Power Capacity:	4.2 kW
Socket Configuration:	IEC 60320 C19 (2) IEC 60320 C13 (14)



Features

Connections

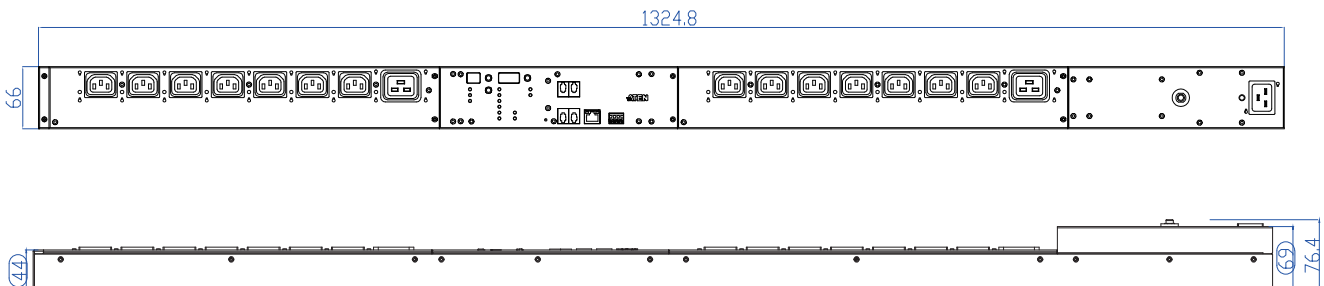
- Supports 10/100Mbit Ethernet Interface
- Supports TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3
- Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS
- Supports, eco Sensors, multiple Browsers (IE, Firefox, Chrome, Safari)

Metering

- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting
- Support door sensor

Outlet Switch Control

- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU
- 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 outlet to allow equipment to be powered on in the correct order
- Proactive overload protection(POP) – automatically powers off the last outlet that caused the current overload



Specifications

Model	PE8216B
Electrical	
Nominal Input Voltage	100 – 240 VAC
Maximum Input Current	20A Max ; 16A (UL de-rated)
Input Frequency	50-60 Hz
Input Connection	1 x NEMA 6-20P
Input Power	4160 VA(Max) 3328 VA (UL de-rated)
Outlet Type	Total : 14 x IEC320 C13 + 2 x IEC320 C19 Ban1-1 : Outlet 1 – 8 ; 7 x C13 + 1 x C19 Bank1-2 : Outlet 9 – 16 ; 7 x C13 + 1 x C19
Nominal Output Voltage	100 – 240 VAC
Maximum Output Current (Outlet)	C13 : 15A (Max) 12A(UL de-rated) C19 : 20A (Max) 16A(UL de-rated)
Maximum Output Current (Bank)	20A(Max) 16A (UL de-rated)
Maximum Output Current (Total)	20A(Max) 16A (UL de-rated)
Breakers	1 x 20A Non-Fuse breaker
Metering	Per Outlet Level Current, Voltage, VA, PF, KWh Monitoring
Outlet Switch	Yes
Environment Sensor Port	4
Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ 5000W +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Mechanical	
Dimension (H x W x D)	132.5 x 6.6 x 4.4 cm
Shipping Dimensions (H x W x D)	142 x 16 x 17 cm
Weight/Shipping Weight	3.9 / 7.9 kg
Power Cord Length	1.6 m
Environmental	
Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	
EMC Verification	FCC Part 15 Class A, Others by Reuest
Safety Verification	TUV-CB, Others by Reuest

Package Contents

1. PE8216B
2. Standard Rack Mount Kit
3. Quick Start Guide
4. CD-ROM (Manual, eco Sensors Software)
5. Power Cord

Optional Accessories

Environment Sensors

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

Door Sensors

Part No.	Sensor
EA1440	Photo Door Sensor
EA1441	Inductive Proximity Door Sensor
EA1442	Reed Door Sensor

Cable Holders

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

• Lok-U-Plug Installation



Mounting Kit



Button Mount Kit (2X-017G)

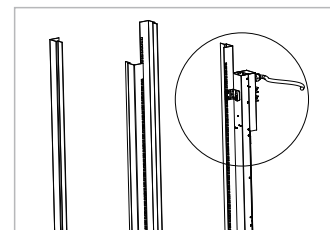


Side Panel Mount Kit (2X-018G)



2X-018G

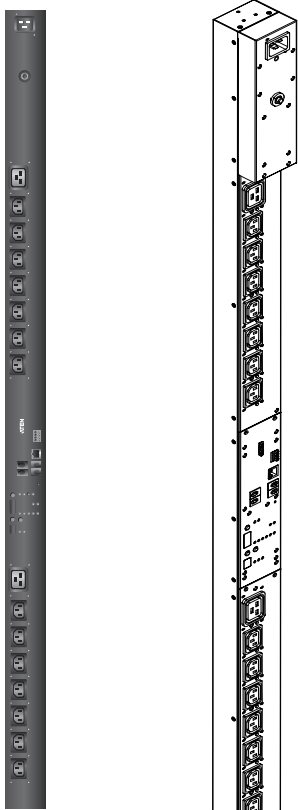
• Button Mount Installation



Rack Mount Kit

PE8216G ECO PDU

Description:	100-240V 16A 0U 16-Outlet PDU
Function:	16-Outlet Metering, 16-Outlet Switching Control & 1-Bank Metering
Input Power Plug:	IEC 60320 C20
Power Capacity:	3.7 kW
Socket Configuration:	IEC 60320 C19 (2) IEC 60320 C13 (14)



Features

Connections

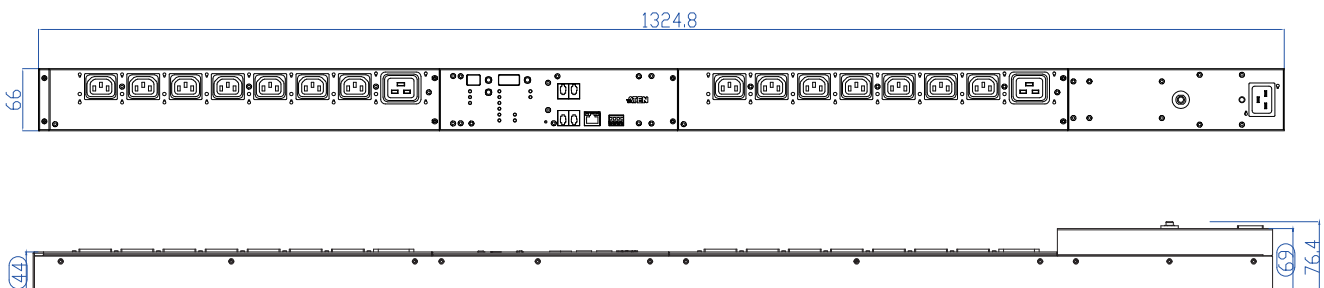
- Supports 10/100Mbit Ethernet Interface
- Supports TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3
- Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS
- Supports, eco Sensors, multiple Browsers (IE, Firefox, Chrome, Safari)

Metering

- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting
- Support door sensor

Outlet Switch Control

- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU
- 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 outlet to allow equipment to be powered on in the correct order
- Proactive overload protection(POP) – automatically powers off the last outlet that caused the current overload



Specifications

Model	PE8216G
Electrical	
Nominal Input Voltage	100 – 240 VAC
Maximum Input Current	16A Max
Input Frequency	50-60 Hz
Input Connection	1 x IEC60320 C20
Input Power	3680 VA(Max)
Outlet Type	Total : 14 x IEC320 C13 + 2 x IEC320 C19 Bank1-1 : Outlet 1 – 8 ; 7 x C13 + 1 x C19 Bank1-2 : Outlet 9 – 16 ; 7 x C13 + 1 x C19
Nominal Output Voltage	100 – 240 VAC
Maximum Output Current (Outlet)	C13 : 10A (Max)
Maximum Output Current (Bank)	C19 : 16A (Max) , TUV De-rated 15A(Max)
Maximum Output Current (Total)	16A(Max), TUV De-rated 15A(Max)
Breakers	1 x 16A Non-Fuse breaker
Metering	Per Outlet Level Current, Voltage, VA, PF, KWh Monitoring
Outlet Switch	Yes
Environment Sensor Port	4
Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ 5000W +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Mechanical	
Dimension (H x W x D)	132.5 x 6.6 x 4.4 cm
Shipping Dimensions (H x W x D)	142 x 16 x 17 cm
Weight/Shipping Weight	3.9 / 7.9 kg
Power Cord Length	1.6 m
Environmental	
Temperature (Operating / Storage)	0 – 40°C / -20 – 60°C
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	
EMC Verification	CE, Others by Request
Safety Verification	TUV-CB, CE-LVD, Others by Request

Package Contents

1. PE8216G
2. Standard Rack Mount Kit
3. Quick Start Guide
4. CD-ROM (Manual, eco Sensors Software)
5. Power Cord

Optional Accessories

Environment Sensors

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

Door Sensors

Part No.	Sensor
EA1440	Photo Door Sensor
EA1441	Inductive Proximity Door Sensor
EA1442	Reed Door Sensor

Cable Holders

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

• Lok-U-Plug Installation



Mounting Kit



Button Mount Kit (2X-017G)

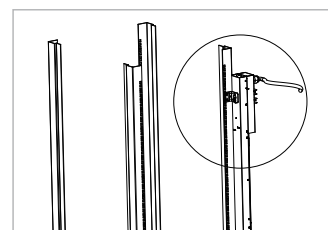


Side Panel Mount Kit (2X-018G)



2X-018G

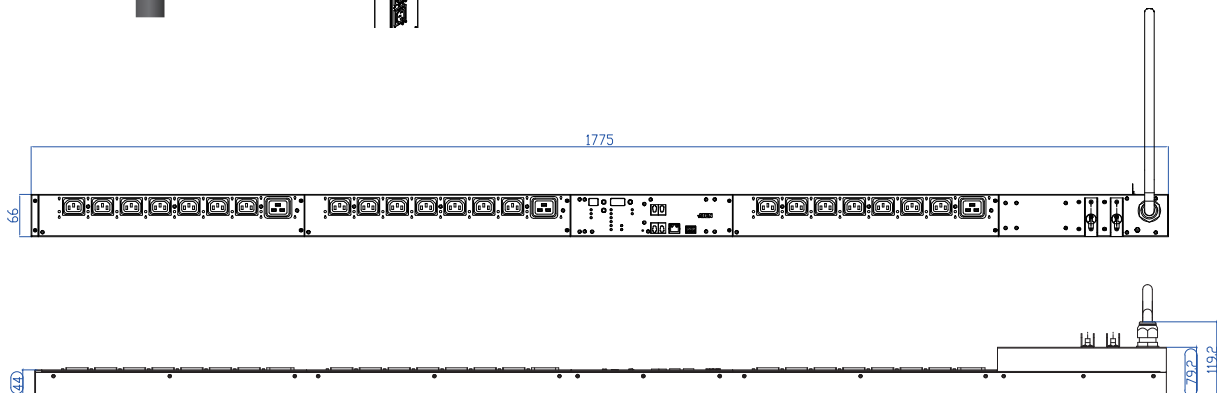
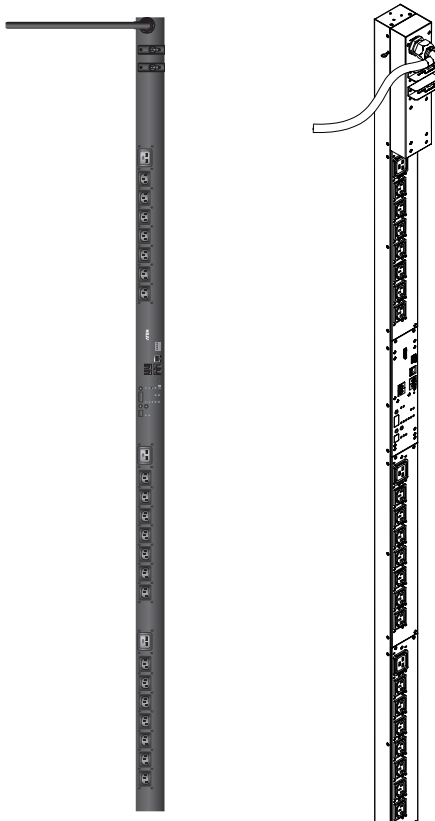
• Button Mount Installation



Rack Mount Kit

PE8324B ECO PDU

Description:	100-240V 30A 0U 24-Outlet PDU
Function:	24-Outlet Metering, 24-Outlet Switching Control & 2-Bank Metering
Input Power Plug:	NEMA L6-30P
Power Capacity:	6.2 kW
Socket Configuration:	IEC 60320 C19 (3) IEC 60320 C13 (21)



Features

Connections

- Supports 10/100Mbit Ethernet Interface
- Supports TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3,
- Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS
- Supports, eco Sensors, multiple Browsers (IE, Firefox, Chrome, Safari)

Metering

- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting
- Support door sensor

Outlet Switch Control

- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU
- 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 outlet to allow equipment to be powered on in the correct order
- Proactive overload protection(POP) – automatically powers off the last outlet that caused the current overload

Specifications

Model	PE8324B
Electrical	
Nominal Input Voltage	100 – 240 VAC
Maximum Input Current	30A Max ; 24A (UL de-rated)
Input Frequency	50-60 Hz
Input Connection	NEMA L6-30P
Input Power	6240 VA(Max) 4992 VA (UL de-rated)
Outlet Type	Total : 21 x IEC320 C13 + 3 x IEC320 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 – 240 VAC
Maximum Output Current (Outlet)	C13 : 15A (Max) 12A(UL de-rated)
Maximum Output Current (Bank)	C19 : 15A (Max) 12A(UL de-rated)
Maximum Output Current (Total)	30A(Max) 24A (UL de-rated)
Breakers	2 x 16A UL489 Breaker
Metering	Per Outlet Level Current, Voltage, VA, PF, KWh Monitoring
Outlet Switch	Yes
Environment Sensor Port	4
Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ 5000W +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Mechanical	
Dimension (H x W x D)	177.5 x 6.6 x 4.4 cm
Shipping Dimensions (H x W x D)	189 x 21 x 17 cm
Weight/Shipping Weight	6.5 / 10.5 kg
Power Cord Length	1.6 m
Environmental	
Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	
EMC Verification	FCC Part 15 Class A, Others by Reuest
Safety Verification	TUV-CB, Others by Reuest

Package Contents

1. PE8324B
2. Standard Rack Mount Kit
3. Quick Start Guide
4. CD-ROM (Manual, eco Sensors Software)

Optional Accessories

Environment Sensors

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

Door Sensors

Part No.	Sensor
EA1440	Photo Door Sensor
EA1441	Inductive Proximity Door Sensor
EA1442	Reed Door Sensor

Cable Holders

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

- Lok-U-Plug Installation



Mounting Kit



Slide Rail Kit (2X-016G)

Button Mount Kit (2X-017G)

Side Panel Mount Kit (2X-018G)

- Side Mount Installation

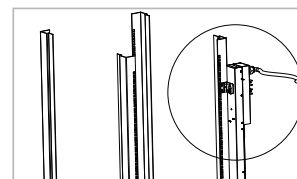


2X-016G



2X-018G

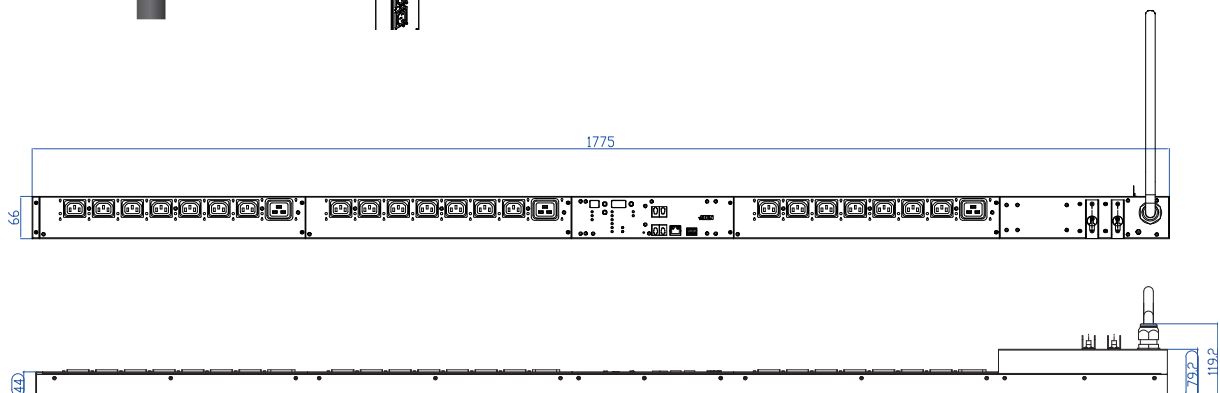
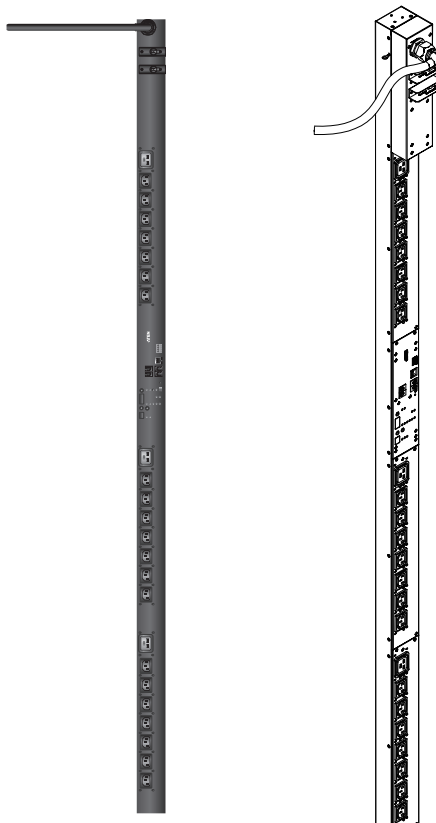
- Button Mount Installation



Rack Mount Kit

PE8324G ECO PDU

Description:	100-240V 32A 0U 24-Outlet PDU
Function:	24-Outlet Metering, 24-Outlet Switch Control & 2-Bank Metering
Input Power Plug:	IEC 60309 32A
Power Capacity:	7.4 kW
Socket Configuration:	IEC 60320 C19 (3) IEC 60320 C13 (21)



Features

Connections

- Supports 10/100Mbit Ethernet Interface
- Supports TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, ARP, NTP, DNS, Telnet, Auto Sense, Ping, SNMP V1,V2&V3,
- Supports three-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS
- Supports, eco Sensors, multiple Browsers (IE, Firefox, Chrome, Safari)

Metering

- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting
- Support door sensor

Outlet Switch Control

- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU
- 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 outlet to allow equipment to be powered on in the correct order
- Proactive overload protection (POP) – automatically powers off the last outlet that caused the current overload

Specifications

Model	PE8324G
Electrical	
Nominal Input Voltage	100 – 240 VAC
Maximum Input Current	32A Max
Input Frequency	50-60 Hz
Input Connection	IEC 60309 32A
Input Power	7360 VA(Max)
Outlet Type	Total : 21 x IEC320 C13 + 3 x IEC320 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 – 240 VAC
Maximum Output Current (Outlet)	C13 : 10A (Max) C19 : 16A (Max), TUV De-rated 15A(Max)
Maximum Output Current (Bank)	16A(Max), TUV De-rated 15A(Max)
Maximum Output Current (Total)	32A(Max), TUV De-rated 30A(Max)
Breakers	2 x 16A UL489 Breaker
Metering	Per Outlet Level Current, Voltage, VA, PF, KWh Monitoring
Outlet Switch	Yes
Environment Sensor Port	4
Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ 5000W +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Mechanical	
Dimension (H x W x D)	177.5 x 6.6 x 4.4 cm
Shipping Dimensions (H x W x D)	189 x 21 x 17 cm
Weight/Shipping Weight	6.5 / 10.5 kg
Power Cord Length	1.6 m
Environmental	
Temperature (Operating / Storage)	0 – 40°C / -20 – 60°C
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	
EMC Verification	CE, Others by Request
Safety Verification	TUV-CB, CE-LVD, Others by Request

Package Contents

1. PE8324G
2. Standard Rack Mount Kit
3. Quick Start Guide
4. CD-ROM (Manual, eco Sensors Software)

Optional Accessories

Environment Sensors

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

Door Sensors

Part No.	Sensor
EA1440	Photo Door Sensor
EA1441	Inductive Proximity Door Sensor
EA1442	Reed Door Sensor

Cable Holders

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

- Lok-U-Plug Installation



Mounting Kit



Slide Rail Kit (2X-016G)

Button Mount Kit (2X-017G)

Side Panel Mount Kit (2X-018G)

- Side Mount Installation

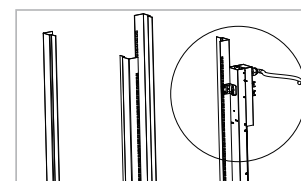


2X-016G



2X-018G

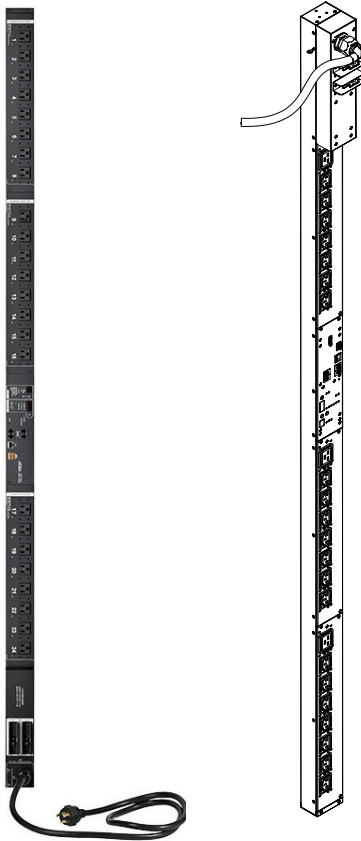
- Button Mount Installation



Rack Mount Kit

PE8324A ECO PDU

Description:	100-240V 30A 0U 24-Outlet PDU
Function:	24-Outlet Metering, 24-Outlet Switching Control & 2-Bank Metering
Input Power Plug:	NEMA L5-30P
Power Capacity:	3.6 kW
Socket Configuration:	24 x NEMA 5-15R



Features

Connections

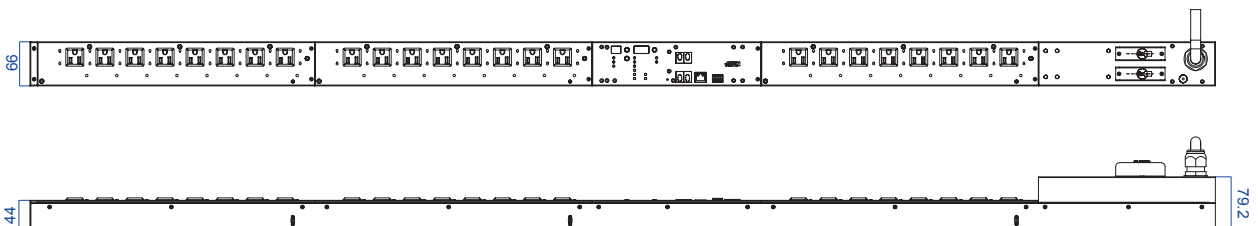
- Support 10/100Mbit Ethernet Interface Support TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, SMTP, ARP, NTP, DNS, Auto Sense, Ping, SNMP V1,V2&V3
- Support 2-level account/password security, IP/MAC filter, 128 bit SSL, RADIUS
- Support : eco Sensors, Browser (IE, Firefox, Chrome, Safari)

Metering

- PDU and outlet level power metering and monitoring
- Environment monitoring – supports external temperature/temperature & humidity sensors for rack temperature and humidity monitoring
- Current, voltage, power, power dissipation, temperature, and humidity metering and threshold level setting

Outlet Switch Control

- Remote power outlet control (On/Off, Power Cycle) by individual outlets and outlet groups
- Outlet group support at the PDU level
- 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 outlet to allow equipment to be powered on in the correct order



Specifications

Model	PE8324A
Electrical	
Nominal Input Voltage	100 – 120 VAC
Maximum Input Current	30A Max ; 24A (UL de-rated)
Input Frequency	50-60 Hz
Input Connection	NEMA L5-30P
Input Power	6240 VA(Max) 4992 VA (UL de-rated)
Outlet Type	Total : 24 x NEMA 5-15R
Nominal Output Voltage	100 – 120 VAC
Maximum Output Current (Outlet)	NEMA 5-15R : 15A (Max) 12A(UL de-rated)
Maximum Output Current (Bank)	15A(Max) 12A (UL de-rated)
Maximum Output Current (Total)	30A(Max) 24A (UL de-rated)
Breakers	2 x 16A UL489 Breaker
Metering	Per Outlet Level Current, Voltage, VA, PF, KWh Monitoring
Outlet Switch	Yes
Environment Sensor Port	4
Metering Accuracy	Voltage Range: 100VAC ~ 250VAC +/-1% Power Range: 100W ~ 5000W +/- 2% Current Range: 0.1A~1A +/- 0.1A, 1A~20A +/-1%
Mechanical	
Dimension (H x W x D)	177.5 x 6.6 x 4.4 cm
Shipping Dimensions (H x W x D)	189 x 21 x 17 cm
Weight/Shipping Weight	6.5 / 10.5 kg
Power Cord Length	1.6 m
Environmental	
Temperature (Operating / Storage)	0 – 50°C / -20 – 60°C
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing
Compliance	
EMC Verification	FCC
Safety Verification	CE-LVD

Package Contents

1. PE8324A
2. Standard Rack Mount Kit
3. Quick Start Guide
4. CD-ROM (Manual, eco Sensors Software)

Optional Accessories

Environment Sensors

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

Door Sensors

Part No.	Sensor
EA1440	Photo Door Sensor
EA1441	Inductive Proximity Door Sensor
EA1442	Reed Door Sensor

Cable Holders

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

• Lok-U-Plug Installation



Mounting Kit



Slide Rail Kit
(2X-016G)

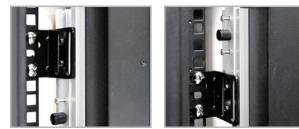


Button Mount Kit
(2X-017G)



Side Panel Mount Kit
(2X-018G)

• Side Mount Installation

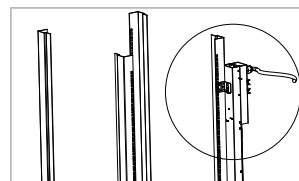


2X-016G



2X-018G

• Button Mount Installation



Rack Mount Kit

ATEN International Co., Ltd.

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Printed 11/2013 V2.0



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