

Intelligent PDU

PG8308B / PG8308G



ATEN's PG series intelligent PDU lineup includes the PG8308B, and PG8308G outlet-metered & switched models. Each PG8308 PDU features 8 outlets with 6 IEC60320 C13 and 2 IEC60320 C19 socket configurations, housed in a compact 1U rack enclosure. With an ARM Cortex-A8 processor, these PDUs provide advanced control options through USB, COM, environmental sensors, and dual Gigabit LAN ports.

Designed for rapid deployment, PG8308 PDUs can power all connected equipment within just 10 seconds of being plugged in. For enhanced cost efficiency and space optimization, these intelligent PDUs can be cascaded, allowing interconnection of up to 64 units.

The PG8308 series PDUs are equipped with RJ-45 sensor ports to connect with EA1640 that monitor the health of the data center environment, ensuring optimal operating conditions. They offer secure, centralized, and intelligent power management capabilities, allowing users to power on, off, or cycle data center IT equipment such as servers, storage systems, KVM switches, network devices, and serial data devices.

With the integration of remote power control and real-time power measurement, users can manage and monitor the power status of devices connected to the PG8308 PDUs from virtually anywhere with an IP connection. This functionality is accessible at the PDU device, bank, or outlet level, depending on the specific model.

These intelligent PDUs are capable of handling high voltage ranges of 100V to 240V. Additionally, they provide precise kWh energy usage data with an accuracy of $\pm 1\%$. This level of precision enhances the monitoring of power consumption, aids in the establishment of baseline energy usage, and supports the tracking of energy efficiency initiatives.

In terms of hardware design, the PG8308 series PDUs incorporate built-in energy-saving relays — subtypes of electromagnetic switches — to manage large current flows more efficiently, resulting in lower energy consumption compared to non-relay models. The built-in circuit breaker on the PG8308B and PG8308G models support current flows of 30A or 32A, automatically disconnecting the power supply to prevent overloads and protect connected devices from damage.

The firmware of the PG8308 series is upgradeable via web GUI or USB, allowing users to conveniently download updates from ATEN's website, ensuring access to the latest functionalities and improvements for practical use.

Green LCD console panel sticker is included for users, with additional options in blue, yellow, red, and purple available for purchase. This color-coding system enhances the ability to differentiate between power feed settings and facilitates more efficient troubleshooting.

The PG series intelligent PDUs are ideally suited for enterprise server rooms, network closets, and data centers, providing an intelligent power distribution and management solution that meets the demands of high-density IT applications while optimizing overall costs.

PG8308B Front View



PG8308B Rear View



Note: The appearance of the PG8308B and PG8308G is identical, differing only in the power cords.

LCD console panel sticker available in 5 colors



Features

Connections

- Supports 1 Gbps Ethernet Interface
- Remote Management Protocols — TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, SMTP (TLS 1.2), ARP, NTP, DNS, Auto Sense, Ping, SNMP V1, V2, and V3, Telnet, Modbus (over TCP/IP), Wi-Fi, and IPv6
- Scripting — JSON-RPC (Remote Procedure Call) protocol and Python scripting to control specified PDU units
- Security — 2-level account/password login access, and IP/MAC filter, 128 bit SSL
- Authentication — RADIUS, LDAP, TACACS
- Supports eco DC and multiple browsers (IE, Firefox, Chrome, and Safari)
- Supports RS-232 and RS-485 communication ports.
- Auto Ping & Reboot
- Environment sensor port enables RJ-45 connectivity to connect or daisy-chain up to 8 environment sensors such as ATEN EA1640 for monitoring and management of temperature, humidity, airflow, differential air pressure, and leaks, featuring alerts for potential threats (sold separately)
- Rotatable LCD Screen — capable of 180-degree rotation, delivering flexible in-rack installation

Metering

- Secure locking enhancement prevents power cords from becoming unplugged due to vibration or human error
- Metering and monitoring of power at the PDU and outlet levels
- Measuring and establishing threshold levels for current, voltage, power, power dissipation, temperature, and humidity
- Precise kWh metering (+/-1%) for better power consumption habits, baselines, and initiative tracking
- Real-time LCD alert sends warnings to alert users of unusual power state

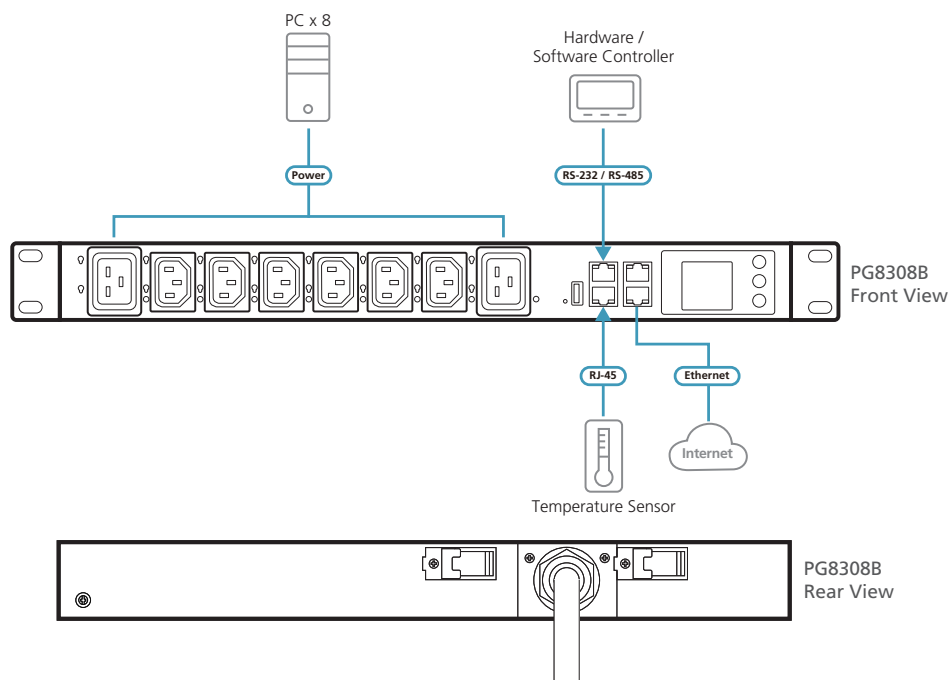
Network

- Dual Ethernet ports support cascading up to 64 PDUs
- Daisy chaining functions support SNMP & Modbus protocols and TC / IP protocols (web page)
- PON port can be connected to the KN series (up to 16 KN devices) and be secondary*
- Supports ATEN's eco DC (Energy & DCIM Management Web GUI) for monitoring power distribution, energy, and environmental data from PDUs and connected devices

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/Off 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, causing the current overload, while allowing users to set shutdown priority
- Schedule Control
- When the temperature or humidity sensor value reaches the predetermined threshold, the PDU can turn on, off, or reboot a particular outlet
- Energy-efficient relays allow operators to control large amounts of current flow for lower energy consumption

Note: To be included in a future firmware release.



Specifications

	PG8308B	PG8308G
Electrical		
Nominal Input Voltage	100 – 240 VAC	
Maximum Input Current	30A Max ,24A(UL)	32A Max
Input Frequency	50-60 Hz	
Input Connection	NEMA L6-30P	IEC 60309 32A
Input Power	7200VA(Max), 5760VA(UL)	7680VA(Max)
Outlet Type	(6) IEC60320 C 13+(2) IEC60320 C 19	
Nominal Output Voltage	100 – 240 VAC	
Maximum Output Current (Outlet)	C 13:15A(Max),12A(UL)	C 13:10A(Max)
	C 19:20A(Max),16A(UL)	C 19:16A(Max)
Breakers	UL489x2	
Metering	Per Outlet level Current, Voltage , PF and KWh Monitoring	
Outlet Switching	Yes	
Environment Sensor Ports	1xRJ-45	
Metering Accuracy	1%	
Physical Properties		
Dimensions (L x W x H)	43.24 x 21.00 x 4.40 cm	
Weight	4.65 kg	4.65 kg
Power Cord Length	3M(SR+NEMA L6-30P)	3M(SR+IEC60309 32A)
Environmental		
Temperature (Operating / Storage)	0 – 60 °C / -20 – 60 °C	
Humidity (Operating & Storage)	0 – 80% RH, Non-Condensing	
Compliance		
EMC Verification	FCC	CE
Safety Verification	UL,PSE	CE,UKCA

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