

3-Phase Intelligent PDU

PG98230 / PG98330 Series

ATEN PG98 metered-switched-by-outlet 3-Phase PDU series ships with 6 x IEC 60320 C19 and 24 x IEC 60320 C13 outlets along with a 0U rack enclosure. Containing an ARM Cortex-A8 processor, the PG98 series delivers flexible control methods through its LAN / COM / USB / environmental sensor ports, while being able to power up all connected equipment in less than 10 seconds once plugged in. For cost-saving and space-efficient setup purposes, PG98 series can be cascaded to connect up to 64 PDU units. As a result, these PDUs accommodate the increasing demand for power to high-density IT devices in server rooms and data centers.

In terms of hardware design, these PDUs have built-in energy-saving relays, a subtype of electromagnetic switch, to help operators control large amounts of current flow, which results in lower energy consumption compared to relay models incapable of energy saving.

Other highlights include the circuit breaker preinstalled onto the PG98330 models that support 30A / 32A current flow, which automatically switches off electricity supply to protect devices from overload or damage. With five colors (yellow, red, purple, blue, and green) of LCD console panel stickers available for users to choose from, differentiating between power feed settings and speeding up troubleshooting are made easier. Plus, the LCD console panel is hot-swappable and can be removed, replaced, or repaired without powering down a mission-critical connected load.

Ideal for enterprise servers, network closets, and data centers, the PG98 series is an intelligent power distribution and management solution that supports high-density IT applications while minimizing the overall cost.



PG98230G Front View

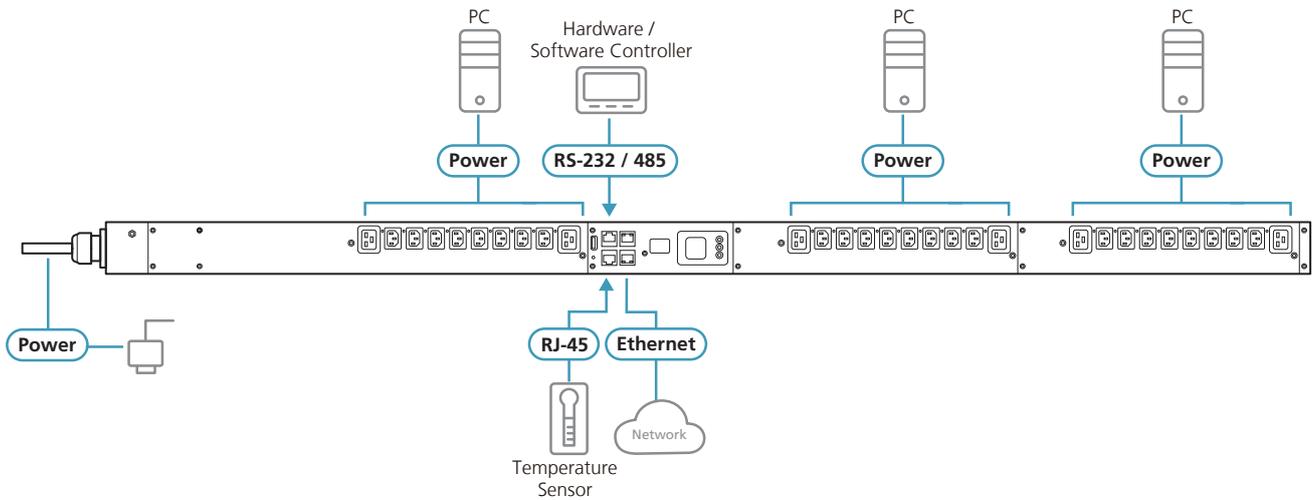


PG98330G Front View



LCD console panel sticker available in 5 colors





Note: As there are many PG98 PDUs, PG98230G is the example used here.

Features

- ARM Cortex-A8 processor for flexible control methods via LAN / COM / USB / environmental sensor ports and enhanced monitoring via LCD console
- **Advantageous hardware / network specifications**
 - 1 Gbps Ethernet Interface
 - Auto Ping & Reboot
 - Remote Management Protocols: TCP/IP, UDP, HTTP, HTTPS, SSL, DHCP, SMTP, ARP, NTP, DNS, Auto Sense, Ping, SNMP V1&V2&V3, Telnet, Modbus (over TCP/IP), Wi-Fi, 802.11 a/b/g/n network protocols, IPv6, and SMS
 - Alerts / Alarms: receives alarms via SNMP, SMTP, SMS¹, and syslog
 - Scripting: JSON-RPC (Remote Procedure Call) protocol and Python scripting to control specified PDU unit (e.g. Switch On / Off)¹
 - Security: 2-level account / password login access, and IP / MAC filter, TLS 1.2, SMTP / SMTPS protocols
 - Authentication: LDAP, RADIUS, TACACS+
- **Expandable installation**
 - Allows for connecting up to 64 PDU units with cascading
 - Up to 16 PDU units can be daisy chained via LAN port connection and PON port connection to ATEN's KN series KVM over IP Switches²
- Energy-efficient relays allow operators to control large amounts of current flow for lower energy consumption
- Precise kWh metering (+/-1%) for better power consumption habits, baselines, and initiative tracking
- Environmental sensor port enables RJ-45 connectivity to connect or daisy-chain up to 8 environmental sensors for monitoring and management of temperature, humidity, airflow, differential air pressure, and leaks³
- Real-time LCD Alert sends warnings to alert users of unusual power state
- An adjustable power cord is built in to the unit cable of 90-degree rotation to allow flexible in-rack installation, resulting in better cable organization
- Secure locking enhancement prevents power cords from becoming unplugged due to vibration or human error
- Supports ATEN's eco DC (Energy & DCIM Management Web GUI) for monitoring power distribution, energy, and environmental data from PDUs and connected devices

Note:

1. To be included in a future firmware release.
2. Firmware upgrade of the KN series is required.
3. Please contact the local sales representative for further information on the environmental sensor.

Specifications

	PG98230B	PG98230B2	PG98230G
Electrical			
Nominal Input Voltage	208V 3PH (Delta)	208V 3PH (Delta)	400/230V 3PH (Star)
Maximum Input Current	20A (Max) ; 16A (UL de-rated)	20A (Max) ; 16A (UL de-rated)	16A (Max)
Input Frequency	50 - 60 Hz		
Input Connection	NEMA L21-20P	NEMA L15-20P	IEC 309 16/20A Red 3P+N+PE
Input Power	7205VA (Max), 5764VA (UL de-rated)	7205VA(Max), 5764VA (UL de-rated)	11084VA (Max)
Outlet Type	(6) IEC 60320 C19, (24) IEC 60320 C13	(6) IEC 60320 C19, (24) IEC 60320 C13	(6) IEC 60320 C19, (24) IEC 60320 C13
Nominal Output Voltage	208 Vac	208 Vac	230 Vac
Maximum Output Current (Outlet)	C13: 15A (Max), 12A (UL de-rated) C19: 20A (Max), 16A (UL de-rated)	C13: 15A (Max), 12A (UL de-rated) C19: 20A (Max), 16A (UL de-rated)	C13:10A (Max), C19:16A (Max)
Breakers	N/A		
Metering	Outlet level Current, Voltage, PF and KWh Monitoring		
Outlet Switching	Yes		
Environment Sensor Ports	Yes		
Metering Accuracy	1%		
Physical Properties			
Power Cord Length	3 m		
Environmental			
Temperature (Operating / Storage)	0 – 60 °C / -20 – 60 °C		
Humidity (Operating & Storage)	0 – 80 % RH, Non-Condensing		
Compliance			
EMC Verification	FCC	FCC	CE, EMC
Safety Verification	UL, PSE	UL, PSE	CE
Warranty	3 Years		

Specifications

	PG98330B	PG98330B2	PG98330G
Electrical			
Nominal Input Voltage	208V 3PH (Delta)	208V 3PH (Delta)	400/230V 3PH (Star)
Maximum Input Current	30A (Max) ; 24A (UL de-rated)	30A (Max) ; 24A (UL de-rated)	32A (Max)
Input Frequency	50 - 60 Hz		
Input Connection	NEMA L21-30P	NEMA L15-30P	IEC 60309 32A Red 3P+N+E
Input Power	10808VA (Max), 8646VA (UL de-rated)	10808VA (Max), 8646VA (UL de-rated)	22170VA (Max)
Outlet Type	(6) IEC 60320 C19, (24) IEC 60320C13	(6) IEC 60320 C19, (24) IEC 60320C13	(6) IEC 60320 C19, (24) IEC 60320C13
Nominal Output Voltage	208 Vac	208 Vac	230 Vac
Maximum Output Current (Outlet)	C13: 15A (Max), 12A (UL derated) C19: 20A (Max), 16A (UL de-rated)	C13: 15A (Max), 12A (UL derated) C19: 20A (Max), 16A (UL de-rated)	C13:10A (Max), C19:16A (Max)
Breakers	3 x UL489(2P)-20A	3 x UL489(2P)-20A	6 x UL489(1P)-16A
Metering	Outlet level Current, Voltage, PF and KWh Monitoring		
Outlet Switching	Yes		
Environment Sensor Ports	Yes		
Metering Accuracy	1%		
Physical Properties			
Power Cord Length	3 m		
Environmental			
Temperature (Operating / Storage)	0 – 60 °C / -20 – 60 °C		
Humidity (Operating & Storage)	0 – 80 % RH, Non-Condensing		
Compliance			
EMC Verification	FCC	FCC	CE, EMC
Safety Verification	UL, PSE	UL, PSE	CE
Warranty	3 Years		

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