

ATHLON PrimeGuard SERIES

Power range:60KW-300KW

ATHLON PrimeGuard Series UPS: Modular design three-phase UPS delivering superior power protection with cutting-edge efficiency, exceptional reliability, and compatibility with Lithium-Ion batteries. Designed for critical applications and high-demand industrial environments, it offers seamless scalability, adaptability, and performance.

About DEWEN®

DEWEN, a premier brand under KEMET LIMITED, is dedicated to advancing sustainable power backup solutions for modern industries. Rooted in over 20 years of KEMET's expertise across the Middle East and Africa, DEWEN specializes in the design and manufacture of innovative backup power products, including Uninterruptible Power Supplies (UPS), rectifiers, inverters, and power and frequency converters.

Driven by a commitment to sustainability, DEWEN integrates eco-conscious practices throughout its design and manufacturing processes, ensuring that our solutions are not only reliable but also environmentally responsible. Each DEWEN product is crafted to deliver efficiency and resilience, enabling businesses to maintain continuity while minimizing their environmental impact.

With DEWEN, KEMET LIMITED reinforces its mission to support clients in implementing sustainable, reliable, and efficient power solutions tailored to their unique needs, helping pave the way for a greener future in energy and backup power.

The ATHLON PrimeGuard Series by DEWEN® redefines three-phase UPS solutions with modular, hot-swappable power module design and front-access architecture, significantly reducing MTTR and enhancing serviceability. Supporting loads from 60 kVA to 300 kVA, PrimeGuard combines cutting-edge efficiency with reliable performance, featuring a high output power factor to deliver optimal, real power with minimal energy loss. Its scalable architecture ensures seamless adaptation to demanding enterprise environments and critical industrial applications.

PrimeGuard's innovative design includes parallel redundancy capabilities, guaranteeing uninterrupted power supply by distributing the load across multiple units for added reliability and flexibility. Advanced voltage regulation and rapid response to power fluctuations ensure stable, continuous power for sensitive equipment and mission-critical operations. For extended runtimes, PrimeGuard supports modular battery expansions, providing tailored energy solutions to meet diverse requirements.

Whether in data centers, industrial facilities, or essential infrastructure, the ATHLON PrimeGuard Series delivers a future-ready solution with unmatched adaptability. Combining modularity, efficiency, and scalability, it is engineered to tackle the most critical power challenges of today and tomorrow.

True Double-Conversion Online UPS

The true double-conversion design of this UPS ensures the delivery of clean, high-quality power to safeguard mission-critical systems. It offers robust protection for sensitive equipment, making it ideal for applications such as high-demand networks, small-scale server centers, telecommunications, and industrial environments.

Compatibility with Lithium-Ion Batteries for Enhanced Efficiency

The ATHLON PrimeGuard Series UPS is designed to seamlessly integrate with Lithium-Ion battery technology, delivering superior efficiency, extended lifecycle, and reduced maintenance compared to traditional battery systems. This compatibility allows for faster charging, higher energy density, and improved performance, making it an ideal choice for mission-critical applications demanding reliability and scalability.

By incorporating Lithium-Ion batteries, the PrimeGuard Series minimizes downtime, optimizes energy usage, and supports advanced monitoring capabilities. Whether deployed in high-demand industrial environments or critical infrastructure, this advanced battery integration ensures robust and adaptable power protection, meeting the evolving needs of modern energy systems.

Integrated Backfeed Detection for Enhanced Safety

The DEWEN® ATHLON PrimeGuard Series includes built-in backfeed detection, providing a dry contact signal to alert users when backfeed conditions are active. This feature ensures compliance with safety standards, protects connected systems, and enhances operational reliability by preventing reverse current flow during maintenance or fault conditions.

Seamless Generator Compatibility in PrimeGuard UPS Series

The PrimeGuard UPS series offers advanced generator compatibility, a key feature designed to provide seamless and reliable power support in critical applications. This feature allows the PrimeGuard UPS to connect directly to a generator without the need for an Automatic Transfer Switch (ATS), simplifying system setup and enhancing efficiency. When connected to a generator, the PrimeGuard UPS is

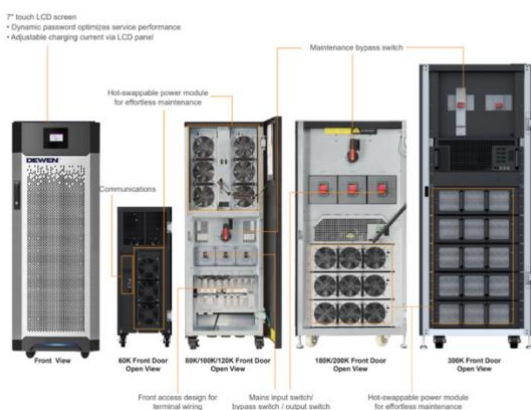
engineered to handle the inherent frequency and voltage fluctuations that often occur during generator startup and operation. With built-in filtering and power conditioning, the PrimeGuard series stabilizes generator power, ensuring clean and uninterrupted power delivery to sensitive loads. This capability is essential in environments where power reliability is critical, as it allows for smooth transitions to generator power in the event of a mains failure, reducing downtime and safeguarding connected equipment. Additionally, the generator compatibility feature manages load distribution effectively, preventing excessive inrush current and extending the lifespan of both the UPS and the generator.

Parallel Redundancy with Modular Hot-Swappable Design for Enhanced Reliability

The ATHLON PrimeGuard Series UPS combines modular, hot-swappable power module design with parallel redundancy capabilities to deliver unparalleled reliability, scalability, and efficiency. Supporting up to four units in parallel and offering the flexibility of a common battery bank, this advanced architecture ensures continuous power protection and optimized resource utilization.

The hot-swappable design with front access allows for swift maintenance or module replacement without downtime, while the parallel redundancy feature ensures uninterrupted operation. If one unit goes offline for maintenance or unexpected issues, the remaining units seamlessly share the load, maintaining power supply without disruption.

This innovative design not only maximizes uptime but also simplifies scalability to meet evolving power demands, making the ATHLON PrimeGuard Series an ideal choice for high-availability environments where reliable and adaptable power protection is critical.



DEWEN's Commitment to Sustainable Power Solutions!

In today's world, sustainability is not just a value but a necessity. DEWEN is dedicated to creating power solutions that embody environmental responsibility, integrating sustainable practices into every aspect of its products. Through thoughtful design, durable construction, and advanced technology, DEWEN addresses the critical need for reliable power with a minimal environmental footprint.



Sustainability Benefits with Lithium-Ion Battery Compatibility

The ATHLON PrimeGuard Series UPS is designed to work seamlessly with Lithium-Ion batteries, offering significant sustainability advantages over traditional Sealed Lead Acid (SLA) batteries. With a longer lifespan, Lithium-Ion batteries reduce the need for frequent replacements, minimizing waste and lowering the environmental impact. Their higher energy efficiency and faster charging capabilities lead to reduced energy consumption and lower carbon emissions. Additionally, Lithium-Ion batteries have a smaller environmental footprint, as they require fewer raw materials and generate less hazardous waste compared to SLA batteries. By choosing Lithium-Ion compatibility, the PrimeGuard Series supports eco-friendly power solutions, combining superior performance with responsible energy management.

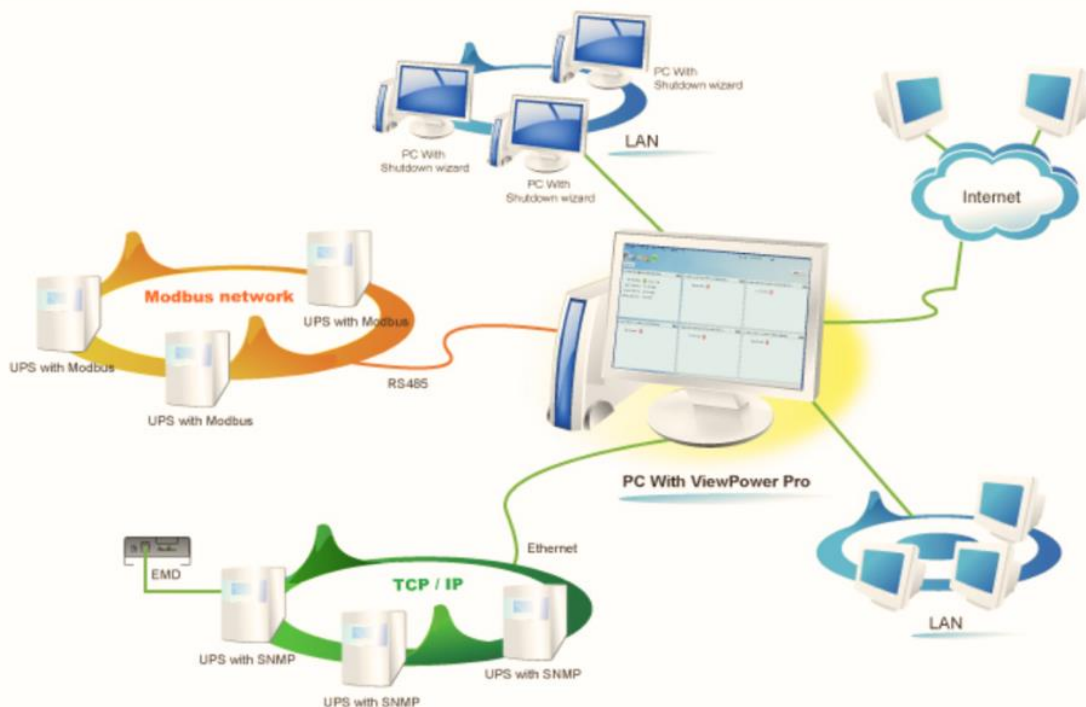
Advanced Communication and Monitoring Capabilities

The ATHLON PrimeGuard system is equipped with LCD, providing users with critical operational insights in an accessible format. This intuitive interface displays essential information, including alarm status, system configuration, startup/shutdown procedures, transfer operations, and advanced metering details. Through the display, users can access real-time measurements of key metrics such as system currents, voltages, and both active and reactive power.

To ensure seamless integration and remote communication, ATHLON PrimeGuard supports Web (HTTP), Modbus, and SNMP protocols, allowing users to monitor and manage the UPS system efficiently from various locations and platforms. These advanced communication features make ATHLON FlexiPower a versatile and user-friendly solution for reliable power management.

Main Features

- Single power module on/off control LCD panel.
- Hot swappable power module design with front access to decrease MTTR, parallel redundancy capability for power guarantee.
- Power walk-in function.
- Dual AC inputs.
- Generator compatibility.
- Emergency Power Off Function (EPO).
- Backfeed detection built in.
- Parallel redundancy up to four units with common battery.
- Compatible to Lithium-ion battery.



Technical Data:

	APG 60K	APG 80K	APG 100K	APG 120K	APG 180K	APG 200K	APG 240K	APG 300K
PHASE	3 phase in / 3 phase out							
CAPACITY	60KVA / 60KW	80KVA / 80KW	100KVA / 100KW	120KVA / 120KW	180KVA / 180KW	200KVA / 200KW	240KVA / 240KW	300KVA / 300KW
INPUT								
Nominal Voltage	380/400/415 VAC (3ph+N)							
Voltage Range	110-300 VAC @ 50% load ; 190-276 VAC ± 3% @ 100% load							
Nominal Frequency	50/60 Hz (Auto Sensing)							
Frequency Range	40 Hz -70 Hz							
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)							
Harmonic Distortion (THDi)	< 5% @ 100% load				< 4% @ 100% load			
OUTPUT								
Nominal Voltage	380/400/415 VAC (3ph+N)							
Voltage Regulation (Steady state)	≤ ± 1% typical (balanced load) ≤ ± 2% typical (unbalanced load)							
Nominal Frequency	50/60Hz							
Frequency Range (Sync. Range)	46-64 Hz or 56-64 Hz							
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)							
Overload Capability	100-110% for 60 min, 111-125% for 10 min, 126%-150 for 1 min; > 150% for 200ms							
Bypass								
Nominal Voltage	380/400/415VAC (3ph+N)							
Voltage Range	-30% - +20% (Adjustable)							
Frequency Range	46-54 Hz or 56 -64 Hz							
Overload Capability	≤ 110% for 60 min, 111-125% for 10 min, 126%-150 for 1 min; > 150% for 200ms							
EFFICIENCY								
AC Mode	95%				95.5%			
ECO Mode	98%				98.5%			
BATTERY								
Numbers	32-40 pcs (adjustable)	40 pcs	32-40 pcs (adjustable)					
Charging Current	18A (adjustable)	24A (adjustable)	36A (adjustable)	54A (adjustable)	72A (adjustable)	90A (adjustable)		
Boost Charge Voltage	2.35V/Cell							
Temperature Compensation	Yes							
PHYSICAL								
Dimension (W x D x H) mm	320 x 1000 x 800	430 x 1000 x 1200	430 x 1000 x 1200	430 x 1000 x 1200	600 x 1000 x 1200	600 x 1000 x 1200	600 x 1100 x 1475	600 x 1100 x 1475
IP Class	IP20							
Net Weight (Kg)	94	125	169	169	249	249	360	369
ENVIRONMENT								
Operating Temperature	0-40 °C							
Relative Humidity	< 95% (Non-condensing)							
Altitude*	<1000m for nominal power							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® Family, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARDS								
Safetyy	IEC/EN 62040-1							
EMC	IEC/EN 62040-2 Category C3							

*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

DEWEN™

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