

Kohler PW 9000DPA

Designed to meet the requirements
of today – and tomorrow



Kohler PW 9000DPA: Delivers class-leading 'Six Nines' (99.9999%) power availability

Kohler PW 9000DPA

Up to 250 kVA (200 kVA N+1) in a single frame

Parallelable up to 1.5 MVA

Transformerless technology

96% true online efficiency

Near unity power factor at parallel and full loads (0.99% @ 100% load)

Low input harmonic distortion (THDi<3%)

Fully rated output power (Blade friendly)

Online double conversion technology

Low total cost of ownership

For more information call +65 6302 0702
or visit www.kohlerups.com

Hot swap UPS module

Dry-port (voltage-free) connections

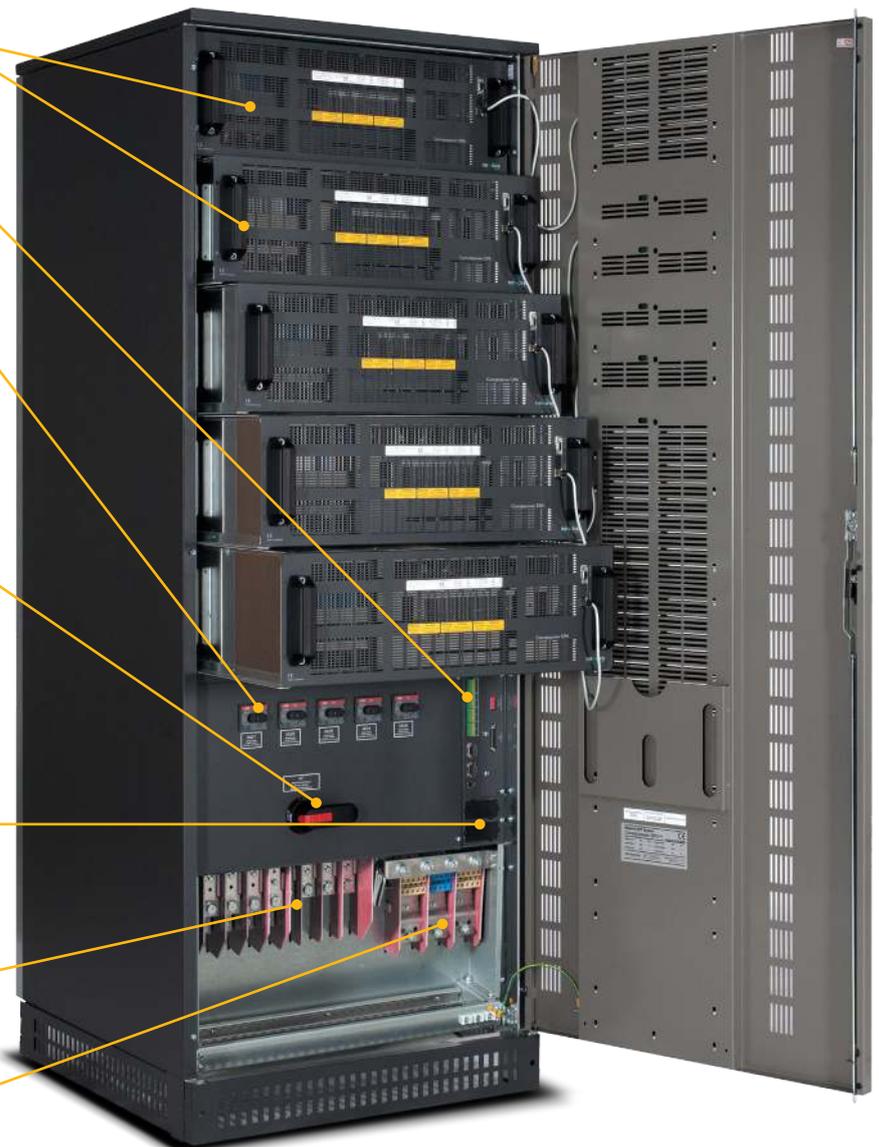
Module parallel isolators (IA2)

Maintenance bypass switch (IA1)

SNMP slot for optional network management card

AC input/output terminals

DC input terminals



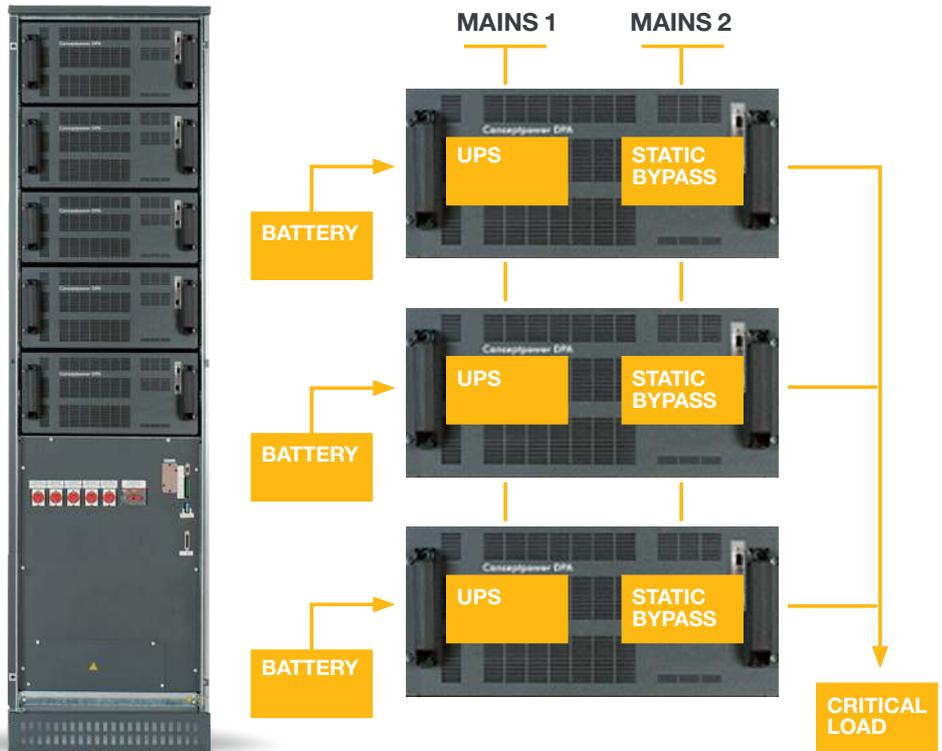
In today's 'on demand' world, highly reliable power protection systems are essential to the protection of critical data and to ensure 24/7 availability for business applications.

Maximum availability

Key benefits

Six Nines availability 99.9999%

Kohler PW 9000DPA maximises availability by combining the benefits of decentralised parallel architecture, parallel redundancy and 'hot-swap' modularity.



Advanced Decentralised Parallel Architecture (DPA)

Key benefits

Distributed control and power

Independent hot-swap modules

No single points of failure

Decentralised Parallel Architecture (DPA) means each UPS module contains all the hardware and software required for full system operation. They share no common components so a DPA parallel system offers extremely high availability. In addition, potential single points of failure are eliminated and system uptime is maximised. Kohler PW 9000DPA UPS modules can be paralleled to provide redundancy (parallel redundancy) or to increase the system's total capacity.

Easy to replace 'hot-swap' modules

Key benefits

Replace or add modules with no downtime/no risk

Simple power upgrade

True 'hot-swap' modularity enables the safe removal and/or insertion of UPS modules into a Kohler PW 9000DPA system without risk to the critical load and without the need to either transfer the critical load onto raw mains or remove power from the critical load. This directly addresses today's requirement for continuous uptime, reducing mean time to repair (MTTR).

Future proof installation

Key benefits

Investment protection

Future proof installation is assured with the Kohler PW 9000DPA's scalability and ability to supply the most demanding of modern loads.



Smallest footprint saves space

Key benefits

- Extremely high power density
 - Uses less valuable floor space
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Class leading power density of 342kW/m² significantly minimises the floor space required to accommodate the Kohler PW 9000DPA. This is particularly important in data centres where space must be maximised to accommodate revenue-earning equipment.

Dedicated 24/7 service support

Key benefits

- Competitively priced service plans
 - Guaranteed response times to site
 - 24/7 telephone support
 - Remote monitoring options
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Kohler Uninterruptible Power offer a comprehensive and cost-effective range of service plans to ensure your UPS is ready to perform when it is needed most.

All our service plans offer the flexibility to ensure that risks and costs are minimised. They all provide regular maintenance visits

and you can choose the level of response time you need to suit your business requirements. To maximise the reliability of your UPS, a service plan from Kohler also ensures critical component degradation is identified and that repairs or replacements are carried out before a fault occurs. Immediate spares availability is assured through our extensive spares inventory.

We also communicate with you right through the service process, proactively managing your service visits and organising the best time to visit to minimise any disruption.

All this not only ensures your power protection system will guarantee your business continuity, but assures your valuable peace of mind.



High reliability

Key benefits

- Reliability maximised
 - Automatic parallel redundant operation
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Parallel redundant (N+1) UPS systems provide the highest level of reliability by ensuring that the number of UPS modules in the system is a minimum of one over and above the number required (N) to fully support the critical load. The Kohler PW 9000DPA is designed to automatically operate as a parallel redundant system, ensuring that the critical load always receives the highest possible level of power protection.

Low cost of ownership

Key benefits

- High operating efficiency, regardless of loading
 - Reduced installation and upgrading costs
 - Near unity input power factor and low input THDi
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By delivering energy efficiency, scalable flexibility and ergonomic design, the Kohler PW 9000DPA offers a low total cost of ownership and easy serviceability.

Blade friendly

Key benefits

- Supports blade servers
 - Supports leading power factors
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Blade servers typically have a leading power factor, which can present problems to UPS systems, particularly if they are not designed to power such loads. The Kohler PW 9000DPA is designed to power all types of electrical loads, including blade servers. It can provide fully rated output power to power factors in the range of 0.9 leading to 0.8 lagging.

“

Kohler came with a very competitive quote and an excellent reputation for support and service. After looking at the Kohler PW 9000DPA it was clear it offered the best solution. It had the N+1 redundancy we wanted and with its modular technology it provided the flexibility to expand the system in line with our growth, eliminating unnecessary capital expenditure at the outset and avoiding excessive energy costs.”

Conleth McCallan,
Managing Director,
Datamet

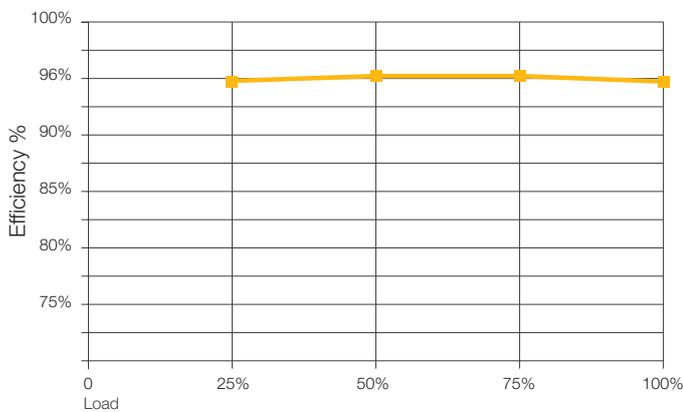
“

The solution we chose saved us having to spend a large amount of capital on power protection on day one and yet gave us the high availability our customers demand. Crucially, however, it is also truly modular, giving us the flexibility to increase capacity and grow the system in-line with our changing requirements. We looked at other solutions but didn't find any as suitable as this.”

Nick Williams,
Co-Founder & Director,
Sleek Networks

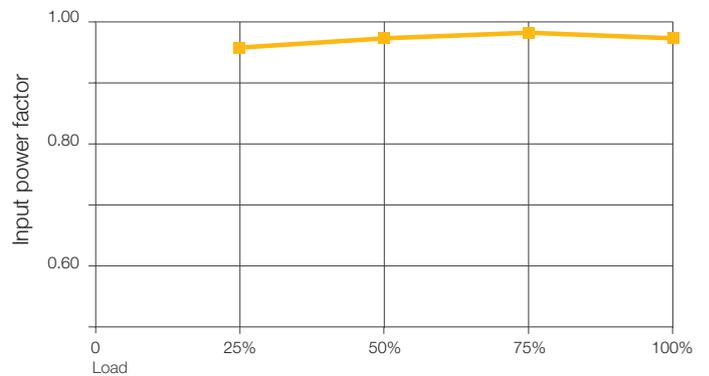
Class leading energy efficiency

AC- AC Efficiency



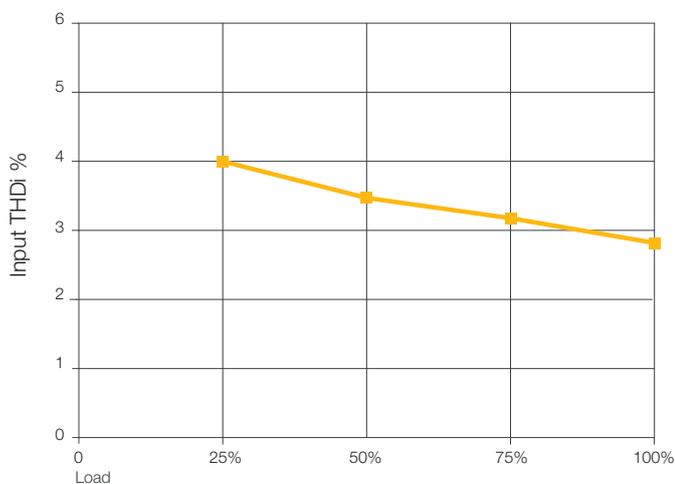
The Kohler PW 9000DPA's 96% true online efficiency, significantly reduces system running costs and site air-conditioning costs. This helps reduce the organisation's carbon footprint.

Input power factor



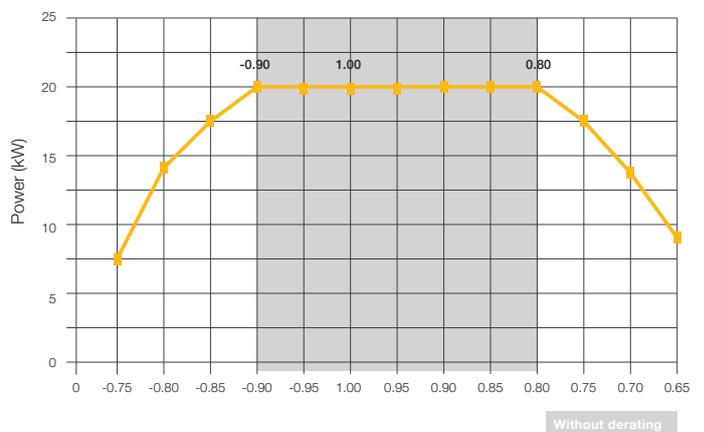
Near unity input power factor, at partial and full load, reduces the required size of the input cable and fuses, thereby reducing the materials (and costs) associated with the system's electrical installation.

THDi



Input current total harmonic distortion (THDi) of <3% virtually eliminates harmonic pollution of the mains supply.

Leading/Lagging



Fully rated output power to power factor in the range of 0.9 leading and 0.8 lagging

Increased reliability
 Increased flexibility
 Increased efficiency

Decreased floor space required
 Decreased heat loss
 Decreased cost of ownership



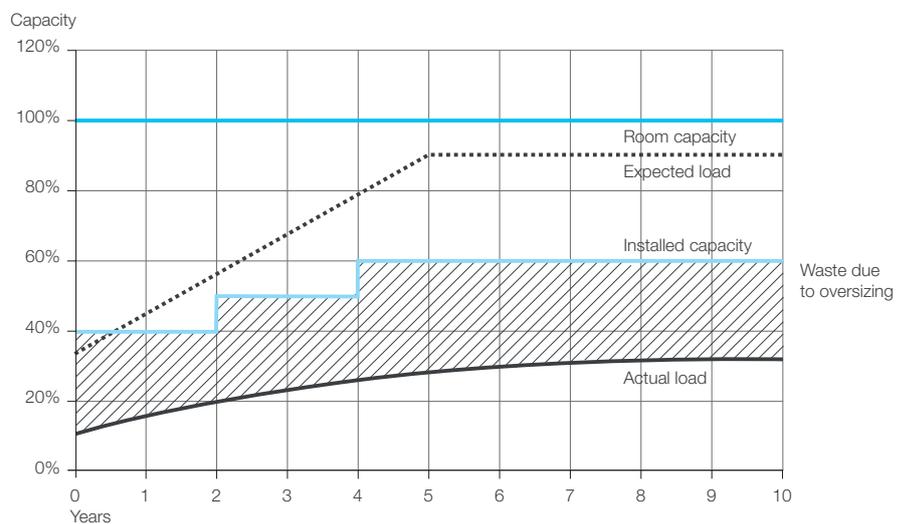
Cost effective scalability

Key benefits

- Ability to 'rightsizing' the system over time
- Simple installation of new modules

UPS modules can be added in cost-effective incremental steps as the critical load power requirement grows. This 'rightsizing' reduces initial cost, optimises operating efficiency and helps reduce total cost of ownership.

Up to five UPS modules can be paralleled in a single rack-format cabinet to enable up to 200kW (342kW/m²) of power capacity per cabinet, providing 'vertical scalability'. If more capacity is required, cabinets can be paralleled providing 'horizontal scalability'.



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