PowerWAVE 5000/TP

Three-phase UPS for mid-size server rooms, networks, telecommunication systems and industrial processes

Uninterruptible Power Supplies Ltd
A KOHLER COMPANY

PowerWAVE 5000/TP

Compact, three-phase critical power protection up to 50 kVA/45kW.

PowerWAVE 5000/TP
Capacities from 10 kVA to 50 kVA three phase
On-line double conversion, transformerless technology for high reliability
Parallel capability of up to 20 units
Input power factor equal to 0.99
Intelligent battery management
95.5% efficiency across a wide load range
Integral batteries
Near unity input power factor
Low input harmonic distortion (THDi <3%)
Small footprint and low weight
Ergonomic design for easy serviceability
Energy saving and low carbon footprint

For more information call 01256 386700
or visit www.upspower.co.uk

PowerWAVE 5000/TP is a true on-line, double-conversion, VFI (voltage frequency independent) UPS that provides enhanced power protection in a compact format. Its outstanding price/performance delivers the best value for money in its category with uncompromised system reliability and power availability.

Highest load availability

Key benefits

Productivity maximised

"Downtime" minimised

PowerWAVE 5000/TP offers class leading reliability by incorporating redundant critical circuits (RCC) which duplicate all of the critical components and circuitry within the UPS. Some UPS have single points of failure. PowerWAVE 5000/TP overcomes this problem and offers exceptional reliability and availability under all circumstances.

Paralleled systems are designed to ensure availability by significantly increasing system redundancy. In the case of a power failure, should a UPS unit fail, the remaining units are still able to continue to support the critical load. Redundant paralleled systems also enable regular maintenance to be carried out on the system without any requirement to remove the critical load from conditioned power.

Parallel configuration for power extension or redundancy

Up to 20 units can be installed in parallel for increased redundancy

High efficiency for lowest lifetime costs

Key benefits

High efficiency at partial and rated loads

Low carbon footprint

With a transformerless design and Energy Saving Inverter Switching (ESIS) technology, PowerWAVE 5000/TP delivers very high efficiency at partial and rated loads (up to 95.5%). This level of efficiency dramatically reduces the Total Cost of Ownership of the UPS during its lifecycle.

Ripple-free and optional temperature controlled battery chargers protect batteries and extend the life-time performance, further reducing running costs.

These benefits combine to make the PowerWAVE 5000/TP a truly ecofriendly solution for all power protection requirements.

Space saving

Key benefits

Reduced footprint

Valuable floor space maximised

With a footprint of only 0.4m^2 at 50 kVA, the PowerWAVE 5000/TP has a power density of up to 100kW/m^2. As a result, substantial and valuable space savings are achieved even at the highest power ratings.

Flexible battery configuration

Key benefits

Optimal sizing of the battery capacity

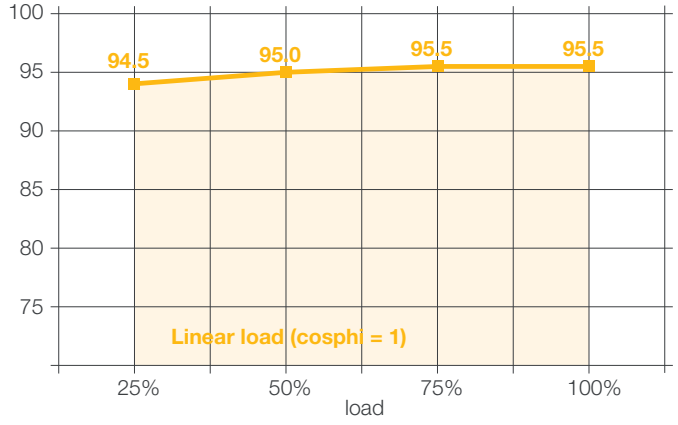
30–50 kVA can hold different battery sizes

The 5000/TP is available in three cabinet sizes, enabling you to choose the ideal capacity and required autonomy for your critical load. The smaller 10 to 25 kVA units are available in two cabinet sizes, dependent on the required level of autonomy, with the larger units, 30 – 50 kVA, available in a third cabinet size, which is able to house both 7/9Ah and 28Ah batteries.

Available in three different cabinet sizes:
Cabinet A: 10 – 20 kVA
Cabinet B: 10 – 25 kVA
Cabinet C: 25 – 50 kVA

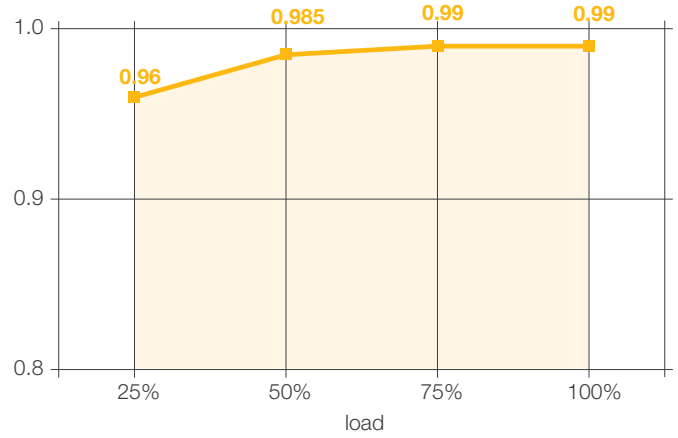
Understanding efficiency and power

AC–AC efficiency



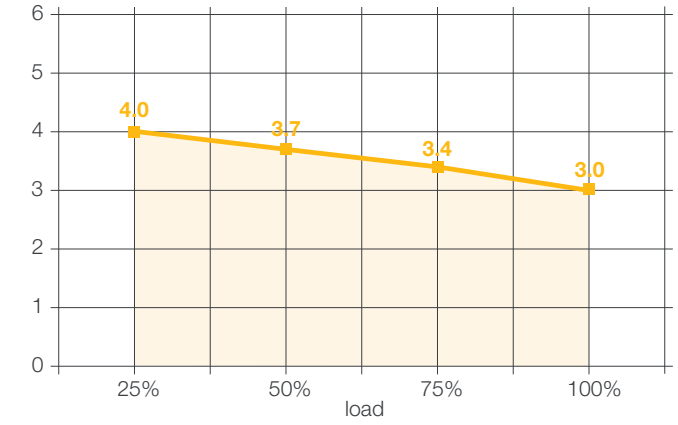
PowerWAVE 5000/TP exhibits state-of-the-art energy efficiency of up to 95.5%, reducing operating costs over the life of the UPS. The flat efficiency curve is typical for all PowerWAVE products, and helps to reduce the organisation's carbon footprint.

Input power factor versus load



The input power factor of PowerWAVE 5000/TP is near unity. This is made possible by the advance booster PFC (Power Factor Correction) circuit of PowerWAVE's transformerless technology. This reduces the size of the input cable and fuses, saving on materials and costs.

Input current total harmonic distortion (THDi)



The outstanding low THDi of <3% at 100% load eliminates possible interference with other equipment in the scheme, saving unnecessary over-sizing of gen-sets, cabling and circuit-breakers, extending the lifetime of all input components.

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