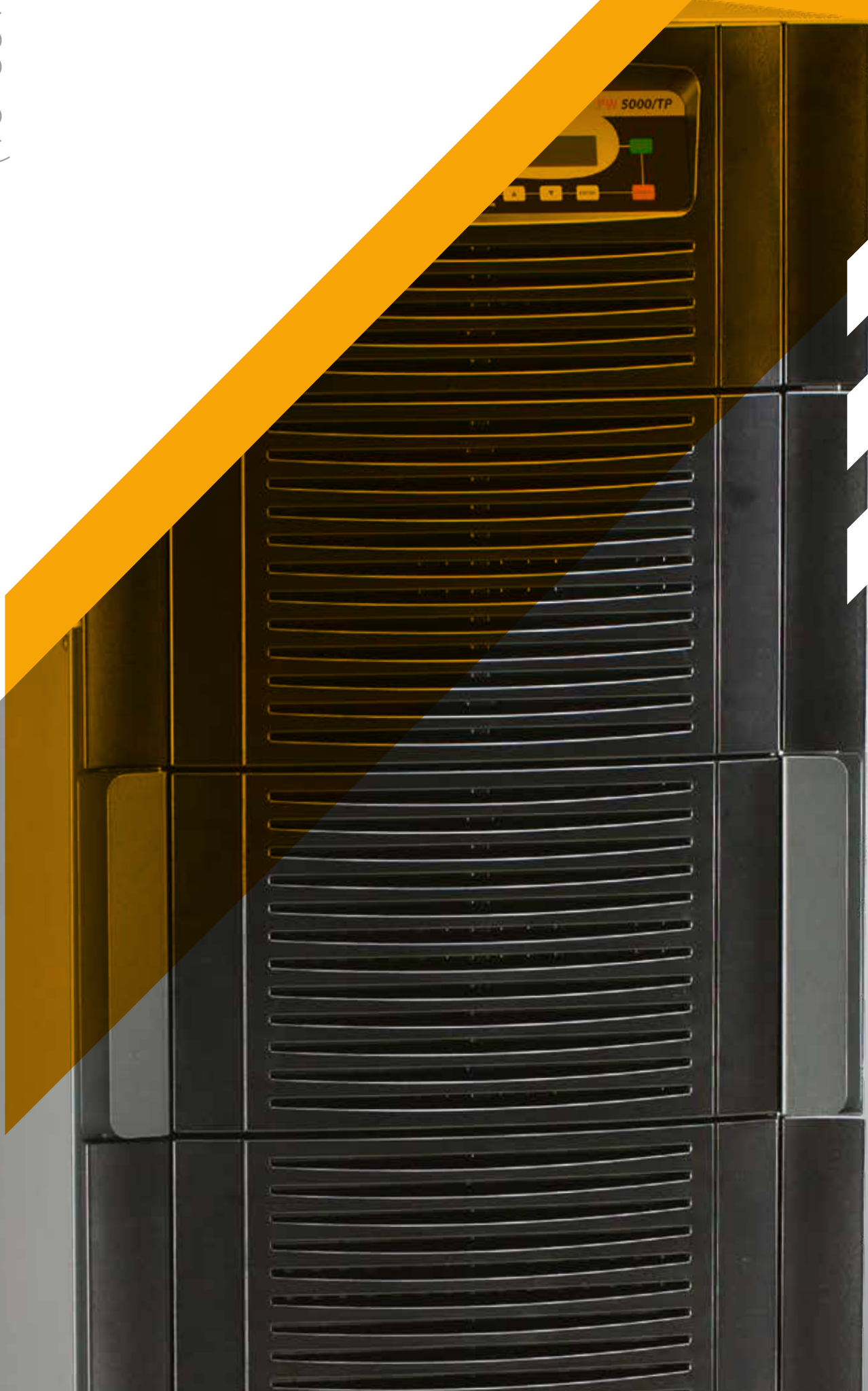


PowerWAVE 5000/TP

(10–50 kVA)



Three-phase UPS for midsize server rooms, networks, telecommunication systems and industrial processes.

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

Intelligent battery management

95.5% efficiency across a wide load
range

Integral batteries

Near unity input power factor (0.99)

Low input harmonic distortion
(THDi <3%)

Small footprint and low weight

Ergonomic design for easy serviceability

Energy saving and low carbon footprint

Extended autonomy with matching
battery cabinets

A true on-line, double-conversion, VFI (voltage frequency independent) UPS that provides enhanced power protection in a compact format.

Its outstanding price and performance deliver the best value for money in its category with uncompromised system reliability and power availability.



Flexible battery configuration

Optimal sizing of battery capacity

10–50 kVA with different sized cabinets

Extended autonomy with matching battery cabinets

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

Additional battery cabinets that match perfectly with the UPS for scaling autonomy time.

Highest load availability

Productivity maximised, 'downtime' minimised

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.

High efficiency for lowest lifetime costs

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 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 eco-friendly solution for all power protection requirements.

Space saving

Reduced footprint

Valuable floor space maximised

With a footprint of only 0.4 m² at 50 kVA, the PowerWAVE 5000/TP has a power density of up to 100 kW/m². As a result, substantial and valuable space savings are achieved even at the highest power ratings.

LCD display

Output contacts and SNMP card (optional)

Customer inputs
RS232 interface

Rectifier and
bypass fuses

Batteries

Battery fuses

Maintenance
bypass switch

Parallel isolator

Battery containment

Input/output connection



UPS cabinet A (10–20 kVA)



Dimensions (W x D x H)

345 x 710 x 720 mm

Weight without battery

10 kVA: 60 kg

15 kVA: 62 kg

20 kVA: 64 kg

Weight with 48 x 7/9 Ah battery

10 kVA: 180 kg

15 kVA: 182 kg

20 kVA: 184 kg



Available in three different cabinet sizes

Cabinet A: 10 – 20 kVA

Cabinet B: 10 – 25 kVA

Cabinet C: 25 – 50 kVA

UPS cabinet B (10–25 kVA)



Dimensions (W x D x H)

345 x 710 x 1045 mm

Weight without battery

10 kVA: 88 kg

15 kVA: 90 kg

20 kVA: 92 kg

25 kVA: 94 kg

Weight with 96 x 7/9 Ah battery

10 kVA: 328 kg

15 kVA: 330 kg

20 kVA: 332 kg

25 kVA: 334 kg

UPS cabinet C (25–50 kVA)



Dimensions (W x D x H)

440 x 910 x 1420 mm

Weight: 7/9 Ah cabinet without battery

25 kVA: 151 kg

30 kVA: 160 kg

40 kVA: 165 kg

50 kVA: 170 kg

Weight: 28 Ah cabinet without battery

25 kVA: 135 kg

30 kVA: 145 kg

40 kVA: 150 kg

50 kVA: 155 kg

Weight with 144 x 7/9 Ah battery

25 kVA: 540 kg

30 kVA: 550 kg

40 kVA: 555 kg

50 kVA: 560 kg

Weight with 48 x 28 Ah battery

25 kVA: 605 kg

30 kVA: 615 kg

40 kVA: 620 kg

50 kVA: 625 kg

**Uninterruptible
Power
Supplies Ltd** 
A **KOHLER** COMPANY



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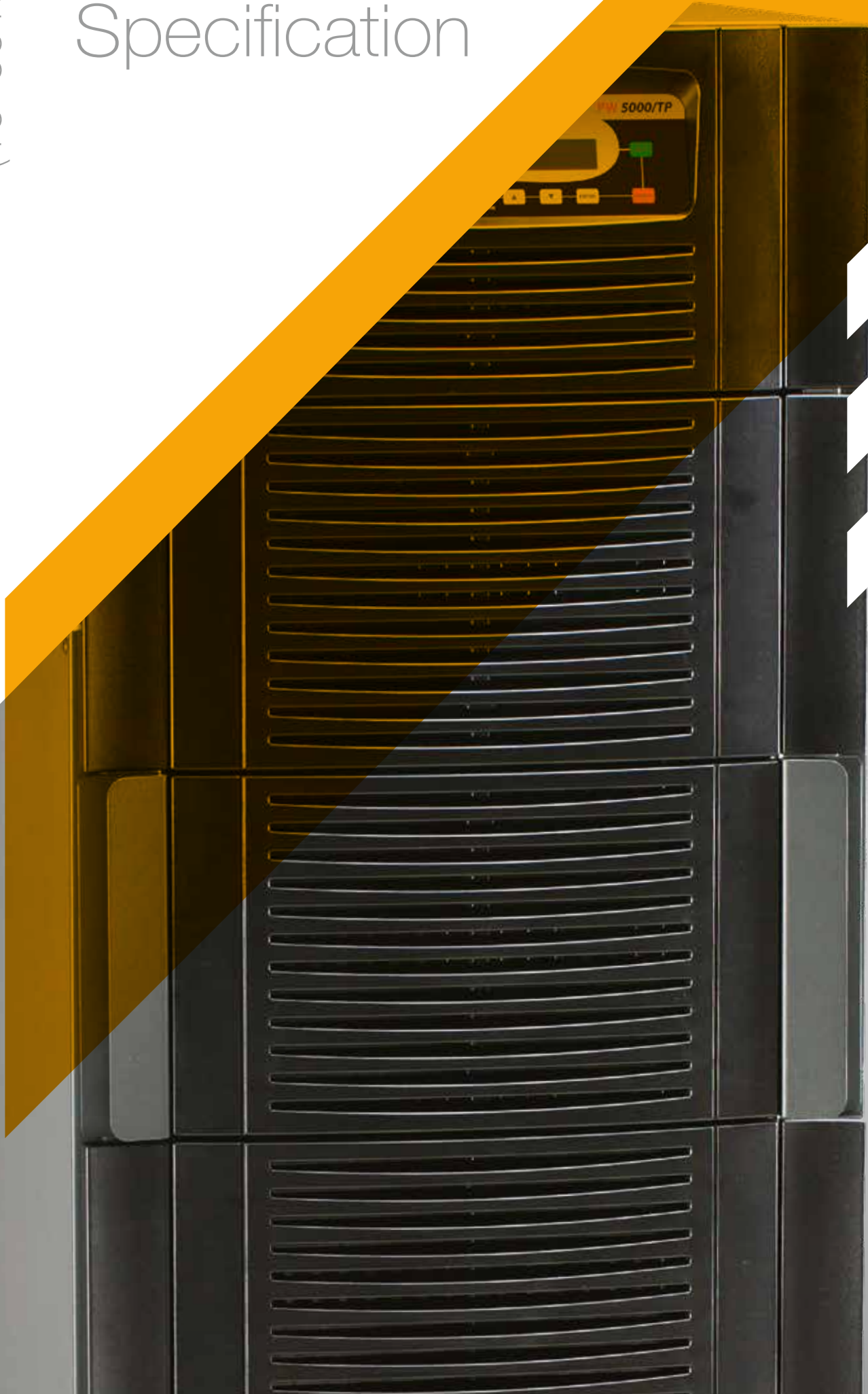
Fax: 01256 386701

Email: sales@upspower.co.uk

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PowerWAVE 5000/TP (10–50 kVA)

Technical Specification



PowerWAVE 5000/TP

General data	10 kVA	15 kVA	20 kVA	25 kVA	30 kVA	40 kVA	50 kVA
Topology	True online double conversion						
Parallel configuration	Up to 20 units						
Integral batteries	Yes						
Input							
Nominal input voltage	3 x 380 / 220 V + N, 3 x 400 V / 230 V + N, 3 x 415 / 240 V + N						
Voltage tolerance	(-23%/+15%) 3 x 308/177 V to 3 x 460/264 V for <100% load						
Input distortion THDi	3.0% @ 100% load						
Frequency range	35–70 Hz						
Power factor	0.99 @ 100% load						
Output							
Output rated power	9 kW	13.5 kW	18 kW	22.5 kW	27 kW	36 kW	45 kW
Output power factor	0.9						
Rated output voltage	3 x 380 / 220 V + N, 3 x 400 / 230 V + N, 3 x 415 / 240 V + N						
Voltage tolerance	1% static, 4% dynamic						
Voltage distortion	< 2% with linear load, < 4% with non-linear load						
Overload capability (0.9 p.f)	10 min: 110% load, 1 min: 130% load						
Nominal frequency	50 or 60 Hz						
Crest factor	3:1						
Efficiency							
Overall efficiency	Up to 95.5%						
In eco mode configuration	Up to 98%						
Environment							
Protection rating	IP 20 (IP 21 option)						
Operating temperature	0°C–40°C						
Positional clearances	Front: 900 mm minimum						
	Left: 600 mm minimum						
	Right: 600 mm minimum						
	Rear: 200 mm minimum for cooling, 600 mm minimum for service						
Input & output power cabling accessibility	Cabled at the rear (A and B cabinets only)				–		
	–			Cabled at the front (C cabinets only)			
Relative air humidity	Up to 95% (non condensing)						
Batteries							
Min/max number of 12V blocks per string	22–50	32–50	32–50	40–50	24–50	32–50	40–50
Charging current	4 A				6 A		
Battery type	Maintenance free VRLA or NiCd						
Standards							
Safety	IEC/EN 62040-1-1:2003, IEC/EN 60950-1:2001/A11:2004						
EMC	IEC/EN 62040-2:2005, IEC/EN61000-3-2:2000, IEC/EN61000-6-2:2001						
Performance	IEC/EN62040-3:2001						

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