

PowerWAVE 9500DPA

(100–500 kVA/kW)

Parallelable up to 3 MVA/MW

Technical Specification



PowerWAVE 9500DPA

General data

System power range	100 kVA/kW – 3 MVA/MW
Max power per module	100 kVA/kW
Max power per frame	500 kVA/kW
Topology	Double conversion, transformer-free, modular, Decentralised Parallel Architecture
Parallel configuration	Up to 5 modules in one frame (500 kW) / up to 6 frames in parallel (3 MW)
Cable entry	Bottom or top as standard
Serviceability	Fully front serviceable
Back-feed protection	Built-in as standard

Input

Nominal input voltage	3 x 380 / 220 V + N, 3 x 400 / 230 V + N, 3 x 415 / 240 V + N
Voltage tolerance	308–460 V (-10 – +15%) < 100% load (-20 – +15%) < 80% load, (-34 – +15%) < 60% load
Input distortion THDi	< 3.5% at 100% load
Frequency range	45–70 Hz
Power factor	0.99 @ 100% load
Walk in/Soft start	Yes

Output

Output power factor	1.0
Rated output voltage	3 x 380 / 220 V + N, 3 x 400 / 230 V + N, 3 x 415 / 240 V + N
Output voltage variation	< +/-1.5
Voltage distortion	< 2% with linear load < 4% with non-linear load
Frequency	50 or 60 Hz (selectable)

Efficiency

Overall efficiency	Up to 95.8%
In eco-mode	≥ 99%

Environment

Protection rating	IP 20
Storage temperature	-25° – +70°
Operating temperature	0° – +40°C
Altitude (above sea level)	1000 m without de-rating

Batteries

Number of 12V blocks / string	Flexible number from 40–50 blocks
Types	VRLA, vented lead-acid, NiCd, Lithium-Ion
Battery charger	Decentralised charger per module

Communications

User interface	Graphical touch screen (one per frame as standard) Decentralised LCD + mimic diagram (one per module as standard)
Communication ports	USB, RS-232, voltage-free contacts, SNMP (optional)
Customer interface	Remote shutdown, gen-set interface, external bypass contact

Compliance

Safety	IEC / EN 62040-1
EMC	IEC / EN 62040-2
Performance	IEC / EN 62040-3
Manufacturing	ISO 9001, ISO 14001

Weight/Dimensions

Weight	Approx. 975 kg (500 kW system without batteries)
Dimensions (mm) W x D x H	1580 x 940 x 1975



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