

PowerWAVE 9500DPA

(100-500 kVA)



PowerWAVE 9500DPA

General data

System power range	100 kW – 3 MW
Nominal power / module	100 kW
Nominal power / frame	500 kW
Output power factor	1.0
Topology	Double conversion, transformer-free, modular, Decentralized 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 to 70 Hz
Power factor	0.99 @ 100 % load
Walk in / Soft start	Yes

Output

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

AC-AC	Up to 96 %
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
Battery charger	Decentralized charger per module

Communications

User interface	Graphical touch screen (one per frame as standard) Decentralized 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 9001:2008, ISO 14001:2004

Weight/Dimensions

Weight	Approx. 975 kg (500 kW system without batteries)
Dimensions WxHxD	1778 x 1975 x 914 mm



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