

PowerWAVE 9000DPA System Description

In environments that demand zero downtime, continuous power protection availability is essential. In order to respond to today's dynamic IT and process-related environments that experience daily change through new server technologies, migration and centralisation, resilient and easily adaptable power protection concepts are required.

PowerWAVE 9000DPA (Decentralised Parallel Architecture) combines the benefit of highest availability, unmatched flexibility and lowest cost of ownership in IT environments.

PowerWAVE 9000DPA provides 'six nines' power protection availability for network-critical infrastructures in data centres where business continuity has paramount importance and for process control environments where manufacturing continuity is essential.

PowerWAVE 9000DPA employs second generation high-power-density, leading-edge, double-conversion UPS technology based on a rack format, hot swap, modular concept, which helps speed deployment, improves adaptability and increases system availability while reducing total cost of ownership.

PowerWAVE 9000DPA is a unique on-demand architecture that integrates the power rack, power distribution unit, back-up battery rack and monitoring and management solutions to allow power protection to be easily optimised.

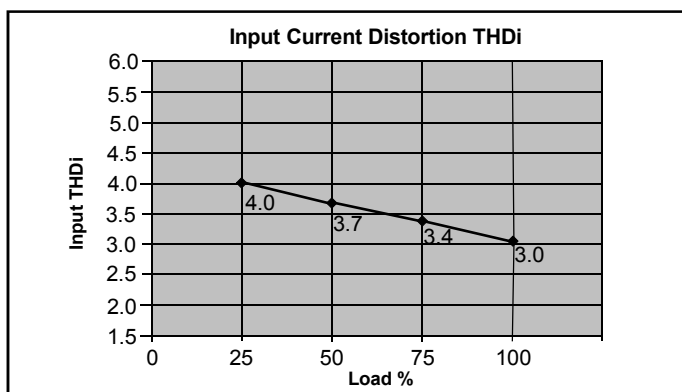
PowerWAVE 9000DPA is a rack-mountable modular design. It permits up to **FIVE** 3-phase UPS modules to be connected in parallel in a single system cabinet. System cabinets may be connected in parallel to provide up to 1000kVA capacity or 950kVA N+1 redundancy.

Key Features	Benefits
N+n UPS Modular Redundancy	For integration into TIER II, III & IV topology
Highest availability modular, Decentralised Parallel Architecture (DPA)	Near-zero down time
DPA with Hot Swap Modules	For premium power protection availability
Flexibility/Scalability	Ease of power upgrade, pay as you grow
Enhanced Serviceability	Rapid fault recovery
High power density (up to 342kW/m ²), small footprint	Saving expensive floor spaces
Blade server friendly	No de-rating for loads with 0.9 leading to 0.8 lagging power factor

PowerWAVE 9000DPA - Options

- PowerREPORTER remote monitoring & diagnosis software
- SNMP card & WAVEMON management software, Modbus protocol
- External battery cabinets
- Parallel bus for additional cabinets
- In/output transformer for special voltage & galvanic isolation
- Higher capacity battery charger for large AH batteries & long autonomies
- Battery charger temperature compensation

Input Current Distortion - THDi



Technical Specifications are subject to change

General Specifications								
Module Range		MIDI				MAXI		
UPS Module Range		DPA 10	DPA 15	DPA 20	DPA 25	DPA 30	DPA 40	DPA 50
Output Rated Power Per Module	kVA	10	15	20	25	30	40	50
Cos ϕ 0.8								
Output Rated Power Per Module	kW	8	12	16	20	24	32	40
Cos ϕ 1.0								
Nominal Input Voltage	V	3 x 380 / 220V + N, 3 x 400V / 230V + N, 3 x 415 / 240V + N						
Input Frequency	Hz	30 - 70						
Input Power Factor		PF = 0.99 @ 100% Load						
Input Current Distortion	THDi	Sine-Wave THDi = < 3% @ 100% Load						
Output Rated Voltage	V	3 x 380 / 220V or 3 x 400 / 230V or 3 x 415 / 240V						
Output Voltage Stability	%	Static: Dynamic (Step Load 0%-100% or 100%-0%)					< +/- 1	
Output Voltage Distortion	%	With Linear Load					< 2	
Output Frequency	Hz	With Non-Linear Load					< 4	
Output Frequency Tolerance	%	Synchronises With Mains (Selectable for Bypass Operation) or Free Running					< +/- 2	
Bypass Operation		At Nominal Input Voltage of 3 x 400 V or 190V to 264V ph-N					+/- 15%	
Permissible Unbalanced Load (All 3 Phases Regulated Independently)	%	100%						
Overload Capability on Inverter	%	125% Load		10 min.		150% Load		
				60 secs				

MIDI CABINETS		SINGLE DPA-25	TRIPLE DPA-75	UPGRADE DPA-125
Maximum Load	kVA	25	75	125
Midi Frame				
Accommodates	Max.	1 UPS Module	3 UPS Modules	5 UPS Modules
		10 - 25 kVA	10 - 25 kVA Each	10 - 25 kVA Each
		Internal Batteries	Internal Batteries	External Batteries
Dimensions (w x h x d)	mm	550 x 1650 x 780	550 x 1975 x 780	550 x 1975 x 780
MAXI CABINETS		SINGLE DPA-50	TRIPLE DPA-150	UPGRADE DPA-250
Maximum Load	kVA	50	150	250
Maxi Frame				
Accommodates	Max.	1 UPS Module	3 UPS Modules	5 UPS Modules
		30 - 50 kVA	30 - 50 kVA Each	30 - 50 kVA Each
		Internal Batteries	Internal Batteries	External Batteries
Dimensions (w x h x d)	mm	730 x 1650 x 800	730 x 1975 x 800	730 x 1975 x 800

AC - AC Efficiency

