

PRODUCT OVERVIEW

Uninterruptible power supply systems

Standalone and modular portfolio

1kVA to 5MVA



— **Uninterruptible power supply systems**
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1kVA to 5MVA

UPS product overview

1 kVA to 5 MVA



GENERAL DATA	PowerValue 11T G2	PowerValue 11 RT	PowerValue 11/31 T
UPS frame rated power	1 / 2 / 3 / 6 / 10 kVA	1 / 2 / 3 / 6 / 10kVA	10 / 20kVA
UPS module rated power	–	–	–
UPS output rated PF	0.9 - 1.0	up to 1.0	0.9
Max. no of parallel frames	Up to 3 units (model dependent)	Up to 3 units (model dependent)	Up to 4 units
Max no of parallel modules across frames	–	–	–
Max system power	30 kW	30kW	80kVA
Wiring	1-ph + N + PE	1-ph + N + PE	1-ph or 3-ph + N + PE (selectable)
UPS type	Standalone tower	Rack or tower convertible	Standalone tower
Topology	Online double conversion	Online double conversion	Online double conversion
INPUT			
Nominal input voltage	220/230/240 VAC (1 – 3 kVA) 208/220/230/240 VAC (6 – 10 kVA)	208, 220, 230, 240VAC	220 / 380, 230 / 400, 240 / 415VAC
Voltage range	100-300 VAC (1 – 3 kVA) 100-276 VAC (6 – 10 kVA)	110 – 276VAC	1-ph 110 – 276VAC 3-ph 190 – 486VAC
Frequency range	45-55 Hz / 54-66 Hz 45-55Hz / 54-66Hz (extendable to 40~70HZ at load < 60%)	45 – 55Hz for 50Hz systems 54 – 66Hz for 60Hz systems	45 – 55Hz for 50Hz systems 54 – 66Hz for 60Hz systems
Current THD at 100% load	5% with full resistive load (1 – 3 kVA) <3% with full resistive load (6 – 10 kVA)	<3%	≤5%
Power factor at 100% load	≥0.99 (1 – 3 kVA) ≥0.995 (6 – 10 kVA)	≥ 0.995	≥0.99
OUTPUT			
Rated output voltage (load dependent)	220/230/240 VAC (1 – 3 kVA) 208/220/230/240 VAC (6 – 10 kVA)	208, 220, 230, 240VAC	220, 230, 240VAC
Voltage THD (with linear load)	<2% linear load, <6% non linear load (1 – 3 kVA) <1% linear load, <5% non linear load (6 – 10 kVA)	≤ 1%	≤2%
Rated frequency	50 or 60 Hz	50 or 60Hz (selectable)	50 or 60Hz (selectable)
EFFICIENCY			
Double conversion	Up to 95%	Up to 95%	Up to 94%
Eco-mode	Up to 98%	95% (1-3 kVA); 98% (6-10 kVA)	97%
COMMUNICATIONS			
User Interface	LCD	LCD	LCD + LEDs
Communication ports	SNMP; ModBus; AS400; Environmental monitoring sensor probe	USB, RS-232, SNMP slot, potential- free contacts	USB, RS-232, SNMP slot, potential- free contacts (optional)
Software	Monitoring and shutdown software available as option		



DPA UPScale RI	DPA UPScale ST	Conceptpower DPA	DPA 250 S4
10/20/40/80kW	40/60/80/120/200kW	150/250kVA	250 kW (N+1)
10/20kW	10/20kW	30/40/50kVA	50 kW
1.0	1.0	0.8	1.0
1 subrack	Up to 4 frames	Up to 6 frames	Up to 6 frames
4 modules	20 modules	30 modules	30 modules
80 kW	400 kW	1500kVA	1500 kW
3ph+N+PE	3ph+N+PE	3ph+N+PE	3ph+N+PE
Modular (DPA)	Modular (DPA)	Modular (DPA)	Modular (DPA)
Online double conversion	Online double conversion	Online double conversion	Online double conversion
220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC
150/260 – 264/460 VAC	150/260 – 264/460 VAC	150/260 – 264/460 VAC	161/280 – 264/460 VAC
35–70Hz	35–70Hz	30–70Hz	35–70Hz
< 3%	< 3%	< 3%	< 3%
≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC
< 1.5%	< 1.5%	< 2%	< 2%
50 or 60Hz (selectable)	50 or 60Hz (selectable)	50 or 60Hz (selectable)	50 or 60Hz (selectable)
Up to 96%	Up to 96%	Up to 95.5%	Up to 97.6% module efficiency, up to 97.4% system efficiency
98%	98%	99%	99%
Module level LCD + mimic diagram Remote system display optional	Module level LCD + mimic diagram System graphical display	Module level LCD + mimic diagram	Module level LCD + mimic diagram System graphical display
USB, RS-232, SNMP slot, potential-free contacts	USB, RS-232, SNMP slot, potential-free contacts	USB, RS-232, SNMP slot, potential-free contacts	USB, RS-232, SNMP slot, potential-free contacts
Monitoring and shutdown software available as option			



GENERAL DATA	Conceptpower DPA 500	PowerLine DPA IEC	PowerScale	PowerWave 33
UPS frame rated power	500kW	20 -120 kVA (3ph); 20 - 80 kVA (1ph)	10 / 15 / 20 / 25 / 30 / 40 / 50kVA	60 / 80 / 100 / 120 / 160 / 200 / 250 / 300 / 400 / 500kW
UPS module rated power	100kW	20 - 40 kVA	–	–
UPS output rated PF	1.0	1.0	0.9	1.0
Max. no of parallel frames	Up to 6 frames	2 (Redundancy)	Up to 20 units	Up to 10 units
Max no of parallel modules across frames	30 modules	6	–	–
Max system power	3000 kW	120 kVA	1000kVA	5000 kW
Wiring	3ph + N + PE	3ph + N + PE (3ph); 1ph + N + PE (1ph)	3ph + N + PE	3ph + N + PE
UPS type	Modular (DPA)	Modular (DPA)	Standalone tower	Standalone tower
Topology	Online double conversion	Online double conversion	Online double conversion	Online double conversion
INPUT				
Nominal input voltage	220 / 380, 230 / 400, 240 / 415VAC	400/230 VAC, others on request	220 / 380, 230 / 400, 240 / 415 VAC	220 / 380, 230 / 400, 240 / 415 VAC
Voltage range	161/280 – 264/460VAC	For loads <100% (-15%, +10%), <80% (-20%, +10%), <60% (-25%, +10%)	161/280 – 264/460VAC	138/240 – 264/460VAC
Frequency range	35–70Hz	50 or 60 Hz (selectable)	35–70Hz	35–70Hz
Current THD at 100% load	< 3.5%	≤4%	≤3%	≤4%
Power factor at 100% load	≥0.99	0.99	≥0.99	≥0.99
OUTPUT				
Rated output voltage (load dependent)	220 / 380, 230 / 400, 240 / 415VAC	400/230 VAC (3ph); 230 VAC (1ph)	220 / 380, 230 / 400, 240 / 415 VAC	220 / 380, 230 / 400, 240 / 415 VAC
Voltage THD (with linear load)	< 2%	<2%	<2%	< 2%
Rated frequency	50 or 60Hz (selectable)	50 or 60Hz (selectable)	50 or 60Hz (selectable)	50 or 60Hz (selectable)
EFFICIENCY				
Double conversion	Up to 96%	Up to 96%	Up to 95.5%	Up to 96%
Eco-mode	99%	98.5%	98%	99%
COMMUNICATIONS				
User Interface	Module level LCD + mimic diagram System graphical display	System graphical display (HMI) + LCD panel UPS Module	LCD+ mimic diagram	Graphical touch screen (optional on 60–200 kW) LCD + mimic diagram (on 60–200 kW only)
Communication ports	USB, RS-232, SNMP slot, potential-free contacts	SNMP; ModBus; potential free contacts	USB (optional), RS-232, SNMP slot, potential-free contacts (optional)	USB, RS-232, SNMP slot, potential-free contacts
Software	Monitoring and shutdown software available as option			