

AC USV Construction/Frequency converter



	Single-phase		Three-phase	
GENERAL DATA	PowerValue 11 RT	PowerValue 31/11 T	PowerScale	PowerWave 33
UPS frame rated power	1/2/3/6/10 kVA	10/20 kVA	10/15/20/25/30/40/ 50 kVA	60/80/100/120/160/200/ 250/300/400/500 kW
UPS module rated power	–	–	–	–
UPS output rated PF	0.9	0.9	0.9	1.0
Max. no of parallel frames	Up to 2 units (model dependent)	Up to 4 units	Up to 20 units	Up to 10 units
Max no of parallel modules across frames	–	–	–	–
Max system power	20 kVA	80 kVA	1000 kVA	5000 kW
Wiring	1-ph+N+PE	1-ph or 3-ph+N+PE (selectable)	3ph+N+PE	3ph+N+PE
UPS type	Rack or tower convertible	Standalone tower	Standalone tower	Standalone tower
Topology	Online double conversion	Online double conversion	Online double conversion	Online double conversion
INPUT				
Nominal input voltage	208, 220, 230, 240 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC	220/380, 230/400, 240/415 VAC
Voltage range	110 – 276 VAC	1-ph 110 – 276 VAC 3-ph 190 – 486 VAC	161/280 – 264/460 VAC	138/240 – 264/460 VAC
Frequency range	45 – 55 Hz for 50 Hz systems 54 – 66 Hz for 60 Hz systems	45 – 55 Hz for 50 Hz systems 54 – 66 Hz for 60 Hz systems	35 – 70 Hz	35 – 70 Hz
Current THD at 100% load	≤ 5%	≤ 5%	≤ 3%	≤ 4%
Power factor at 100% load	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.99
OUTPUT				
Rated output voltage (load dependent)	208, 220, 230, 240 VAC	220, 230, 240 VAC	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 60 Hz (selectable)	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)
EFFICIENCY				
Double conversion	Up to 93%	Up to 93%	Up to 95.5%	Up to 96%
Eco-mode	Up to 97%	Up to 97%	98%	99%
COMMUNICATIONS				
User Interface	LCD	LCD+LEDs	LCD+mimic diagram	LCD+mimic diagram (60–200 kW) System graphical display (250–500 kW)
Communication ports	USB, RS-232, SNMP slot, potential-free contacts (optional)	USB, RS-232, SNMP slot, potential-free contacts (optional)	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			

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Three-phase			
DPA UPScale RI	DPA UPScale ST	Conceptpower DPA	Conceptpower DPA 500
10/20/40/80kW	40/60/80/120/200 kW	50/150/250 kVA	500 kW
10/20 kW	10/20 kW	30/40/50 kVA	100 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	1500 kVA	3000 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	161/280 – 264/460 VAC	161/280 – 264/460 VAC
35 – 70 Hz	35 – 70 Hz	35 – 70 Hz	35 – 70 Hz
< 3%	< 3%	< 3%	< 3.5%
≥ 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%	< 1.5%	< 2%
50 or 60 Hz (selectable)	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)
Up to 96%	Up to 96%	Up to 96%	Up to 96%
98%	98%	99%	99%
Module level LCD + mimic diagram	Module level LCD + mimic diagram	Module level LCD + mimic diagram	Module level LCD + mimic diagram
Remote system display (optional)	System graphical display (optional)	Remote system display (optional)	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			