

Uninterruptible power supply systems

Standalone and modular portfolio, 1 kVA to 5 MVA

Product overview



UPS product overview 1 kVA to 5 MVA



GENERAL DATA	PowerVario		PowerValue 11	PowerValue 31	PowerScale
Power range	1/2/3kVA	4.5/6/8/ 10kVA	7.5/10/12kVA	7.5/10/15/20kVA	10/15/20/25/30/40/ 50kVA
Output power factor	0.8	0.9	0.7	0.7	0.9
Max. output power: frame (unit)	3kVA	10kVA	12kVA	20kVA	50kVA
Max. output power: system	30kVA	–	–	–	1 MVA
Output power modules	–	–	–	–	–
UPS-modules, pcs	–	–	–	–	–
Topology	True online double conversion	True online double conversion	True online double conversion	True online double conversion	True online double conversion
Parallel configuration	Up to 3 units (only 4.5–10kVA)	–	–	–	Up to 20 units
UPS type	Standalone	Standalone	Standalone	Standalone	Standalone
Weight (without batteries)	Up to 30 kg	Up to 204 kg	Up to 204 kg	Up to 204 kg	Up to 155 kg
INPUT					
Nominal input voltage	1 × 200 V / 208 V / 220 V / 230 V / 240 V + N	1 × 220 V / 230 V / 240 V + N	3 × 380 V / 220 V + N 3 × 400 V / 230 V + N 3 × 415 V / 240 V + N	3 × 380 V / 220 V + N 3 × 400 V / 230 V + N 3 × 415 V / 240 V + N	3 × 380 V / 220 V + N 3 × 400 V / 230 V + N 3 × 415 V / 240 V + N
Voltage tolerance (Ref. to 3 × 400 / 230 V or Ref. to 1 × 230 V)	For loads = 100% (–27%, +25%)	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%)	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%)	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%)	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%)
Input distortion THDi	< 6% at 100%	< 10% at 100%	< 25% at 100%, < 7–9% at 100% optional	< 3% at 100%	< 3% at 100%
Frequency	50–60 Hz	35–70 Hz	35–70 Hz	35–70 Hz	35–70 Hz
Power factor at 100% load	0.99	0.98	0.95 (standard) 0.98 (optional)	0.99	0.99
OUTPUT					
Rated output voltage	1 × 208 V / 220 V / 230 V / 240 V + N	1 × 220 V / 230 V / 240 V + N	1 × 220 V / 230 V / 240 V + N	3 × 380 V / 220 V + N 3 × 400 V / 230 V + N 3 × 415 V / 240 V + N	3 × 380 V / 220 V + N 3 × 400 V / 230 V + N 3 × 415 V / 240 V + N
Voltage distortion (linear load)	< 3%	< 2%	< 2%	< 2%	< 2%
Unbalanced load	–	100% possible	100% possible	100% possible	100% possible
Crest factor	3 : 1	3 : 1	3 : 1	3 : 1	3 : 1
EFFICIENCY					
Overall efficiency	Up to 92%	Up to 94.5%	Up to 94.5%	Up to 94.5%	Up to 95.5%
In eco-mode configuration	Up to 98% (only 4.5–10kVA)	98%	98%	98%	98%
COMMUNICATIONS					
Communication ports	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	USB, RS-232, SNMP slot, potential-free contacts
Customer input interface	Remote shutdown	Remote shutdown, genset interface	Remote shutdown, genset interface	Remote shutdown, genset interface	Remote shutdown, genset interface
SINGLE PHASE			THREE PHASE		



PowerWave 33	DPA UPScale RI	DPA UPScale ST	Conceptpower DPA
60/80/100/120/160/200/250/300/400/500kW	10/20/40/80kW	40/60/80/120kW	25/50/75/125/150/250kVA
1.0	1.0	1.0	0.8
500kW	80kW	120kW	250kVA
5MW	–	–	1.5MVA
–	10/20kW	10/20kW	10/15/20/25/30/40/50kVA
–	Up to 4 modules	Up to 6 modules	Up to 30 modules
True online double conversion	True online double conversion	True online double conversion	True online double conversion
Up to 10 units	–	–	Up to 6 units
Standalone	Modular (DPA)	Modular (DPA)	Modular (DPA)
From 230 kg up to 1000 kg	From 39 kg up to 136 kg	From 111 kg up to 262 kg	From 209 kg up to 439 kg
3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N
For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%) < 3.5% at 100%	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%) < 3% at 100%	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%) < 3% at 100%	For loads < 100% (–23%, +15%) < 80% (–30%, +15%) < 60% (–40%, +15%) < 3% at 100%
35–70Hz	35–70Hz	35–70Hz	35–70Hz
0.99	0.99	0.99	0.99
3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N	3×380 V/220 V+N 3×400 V/230 V+N 3×415 V/240 V+N
<2%	<1.5%	<1.5%	<1.5%
100% possible	100% possible	100% possible	100% possible
3 : 1	3 : 1	3 : 1	3 : 1
Up to 96%	Up to 96%	Up to 96%	Up to 95.5%
99%	98%	98%	98%
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
Remote shutdown, genset interface	Remote shutdown, genset interface	Remote shutdown, genset interface	Remote shutdown, genset interface

THREE PHASE

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