
PRODUCT OVERVIEW (IEC)

Uninterruptible power supply systems

Standalone and modular portfolio

1 kVA to 6 MVA

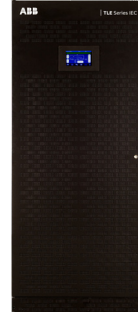


UPS product overview

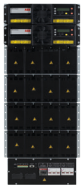
1 kVA to 6 MVA



GENERAL DATA	PowerValue LI Up / Pro	PowerValue 11T G2	PowerValue 11 RT	PowerValue 11/31 T
UPS frame rated power	600/800/1000/1500/2000 VA	1 / 2 / 3 / 6 / 10 kVA	1 / 2 / 3 / 6 / 10 kVA	10 / 20 kVA
UPS module rated power	-	-	-	-
UPS output rated PF	0.6 / 0.7 (model dependent)	0.9 (1-3 kVA) 1.0 (6-10 kVA)	1.0	0.9
Max. no of parallel UPSs -	-	Up to 3 UPSs (6-10 kVA)	Up to 3 UPSs (6-10 kVA)	Up to 4 UPSs
Max no of parallel modules across system	-	-	-	-
Max system power	-	30 kW	30 kW	80 kVA
Wiring	1-ph + N + PE	1-ph + N + PE	1-ph + N + PE	1-ph or 3-ph + N + PE (selectable)
UPS type	Standalone tower	Standalone tower	Rack or tower convertible	Standalone tower
Topology	Line-interactive	Online double conversion	Online double conversion	Online double conversion
INPUT				
Nominal input voltage	230 VAC	220/230/240 VAC (1-3 kVA) 208/220/230/240 VAC (6-10 kVA)	208/220/230/240VAC	220/380/230/400/ 240/415 VAC
Voltage range	170-280 VAC	100-300 VAC (1-3 kVA) 100-276 VAC (6-10 kVA)	120-300 VAC (1-3 kVA) 100-276 VAC (6-10 kVA)	1-ph 110 - 276VAC 3-ph 190 - 486VAC
Frequency range	50 / 60 Hz	45-55 Hz for 50 Hz systems 54-66 Hz for 60 Hz systems 40-70 Hz with load <60% (6-10 kVA)	45-55 Hz for 50 Hz systems 54-66 Hz for 60 Hz systems 40-70 Hz with load <60% (6-10 kVA)	45-55 Hz for 50 Hz systems 54-66 Hz for 60 Hz systems 40-70 Hz with load <60% (6-10 kVA)
Current THD at 100% load	-	5% (1-3 kVA) < 3% (6-10 kVA)	<5% (1-3 kVA) <3% (6-10 kVA)	≤5%
Power factor at 100% load	-	≥0.99 (1-3 kVA) ≥0.995 (6-10 kVA)	≥0.99 (1-3 kVA) ≥0.995 (6-10 kVA)	≥0.99
OUTPUT				
Rated output voltage (load dependent)	230 VAC	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% (1-3 kVA) < 1% (6-10 kVA)	<2% (1-3 kVA) <1% (6-10 kVA)	≤2%
Rated frequency	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)	50 or 60Hz (selectable)	50 or 60Hz (selectable)
EFFICIENCY				
Line-interactive	≥95% (normal mode)	-	-	-
Double conversion	-	Up to 91% (1-3 kVA) Up to 95% (6-10 kVA)	Up to 92% (1-3 kVA) Up to 95% (6-10 kVA)	Up to 94%
Eco-mode	-	Up to 98%	Up to 98%	Up to 97%
COMMUNICATIONS				
User Interface	Touchscreen LCD (Up), LCD (Pro)	LCD	LCD	LCD + LEDs
Communication ports	USB, RS232	USB, RS-232, SNMP slot, potential-free contacts	USB, RS-232, SNMP slot, potential-free contacts	USB, RS-232, SNMP slot, potential-free contacts (optional)
Control / monitoring	Monitoring and shutdown software available			



PowerScale	PowerWave 33	TLE
10/15/20/25/30/40/50kVA	60/80/100/120/160/200/ 250/300/400/500kW	200 / 400 kW
-	-	-
0.9	1.0	1.0
Up to 20 UPSs	Up to 10 UPSs	Up to 6 UPSs
-	-	-
1000 kVA	5000 kW	2400 kW
3ph+N+PE	3ph+N+PE	3ph+N+PE
Standalone tower	Standalone tower	Standalone tower
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
161/280 - 264/460VAC	138/240 - 264/460VAC	196/340 - 265/460 VAC
35 - 70Hz	35 - 70Hz	45 - 66Hz
≤ 3%	≤ 4%	< 3%
≥ 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
< 2%	< 2%	< 2.5%
50 or 60Hz (selectable)	50 or 60 Hz (selectable)	50 or 60 Hz (selectable)
-	-	-
Up to 95.5%	Up to 96%	Up to 96.6%
98%	99%	Up to 98.3%
LCD + mimic diagram	Graphical touch screen (optional on 160-200 kW), LCD + mimic diagram (on 60-200 kW only)	System graphical touch screen LCD
USB (optional), RS-232, SNMP slot, potential-free contacts (optional)	USB, RS-232, SNMP slot, potential-free contacts	RS232, SNMP (Modbus IP, RS232, RS485 & BacNet IP)
Monitoring and shutdown software available as option		



DPA UPScale RI	DPA UPScale ST	DPA 250 S4	Conceptpower DPA 500
10/20/40/80 kW	40/60/80/120/200 kW	300 kW	500 kW
10/20 kW	10/20 kW	50 kW	100 kW
1.0	1.0	1.0	1.0
1 subrack	Up to 4 UPSs	Up to 5 UPSs	Up to 6 UPSs
4 modules	20 modules	30 modules	30 modules
80 kW	400 kW	1500 kW	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
35-70Hz	35-70Hz	35-70Hz	35-70Hz
< 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%	< 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 97.6% module efficiency, up to 97.4% system efficiency	Up to 96%
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, system graphical display	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	MegaFlex DPA	PowerLine DPA IEC	SG Series
UPS frame rated power	1000 kW- 1500 kW	20 -120 kVA (3ph); 20 - 80 kVA (1ph)	10-500 kVA
UPS module rated power	250 kW	20 - 40 kVA	-
UPS output rated PF	1.0	1.0	0.9
Max. no of parallel UPSs	Up to 4 UPSs	2 (Redundancy)	Up to 6 UPSs
Max no of parallel modules across system	Up to 24 modules	6	-
Max system power	6000 kW	120 kVA	3000 kVA
Wiring	3ph + N + PE (4W), 3ph + PE (3W)	3ph + N+ PE (3ph); 1ph + N + PE (1ph)	3ph + N +PE
UPS type	Modular (DPA)	Modular (DPA)	Standalone tower
Topology	Online double conversion	Online double conversion	Online double conversion
INPUT			
Nominal input voltage	220/380, 230/400, 240/415 VAC	400/230 VAC, others on request	380/400/415 VAC
Voltage range	30% at partial loads	For loads < 100% (-15%, +10%), < 80% (-20%, +10%), < 60% (-25%, +10%)	340-460 VAC
Frequency range	35 – 70 Hz	35-70 Hz	45-66 Hz
Current THD at 100% load	<4%	< 4%	< 2%
Power factor at 100% load	0.99	0.99	0.99
OUTPUT			
Rated output voltage (load dependent)	220/380, 230/400, 240/415 VAC	400/230 VAC (3ph); 230 VAC (1ph)	3x 380/400/415 VAC
Voltage variation	± 1%	< 2%	< 1.5%
Rated frequency	50 or 60 Hz (selectable)	50 or 60Hz (selectable)	50 or 60 Hz (selectable)
EFFICIENCY			
Line-interactive	-	-	-
Double conversion	Up to 97.4% (50% rated load); > 97% (25 % rated load)	Up to 96%	up to 94.6%
Eco-mode	Up to 99%	98.5%	up to 98.7% (eBoost)
COMMUNICATIONS			
User Interface	Module level LCD + mimic diagram, system graphical display	System graphical display (HMI) + LCD panel UPS Module	System Graphical Display LCD
Communication ports	USB, RS-232, programmable potential-free contacts, ABB network card	SNMP; ModBus; potential free contacts	RS232, SNMP (Modbus IP, RS232, RS485 & BacNet IP)
Control and monitoring	Monitoring and shutdown software available as option	Monitoring and shutdown software available as option	



ABB Power Protection SA

Via Luserte Sud 9
6572 Quartino
Switzerland

