

PowerValue 11 T

Advanced double conversion power protection for critical applications

Power problems are not the exclusive concern of big enterprises and organizations. Your computers and networks are just as critical to you as a large company's data center is to it. ABB's PowerValue 11 T is a true double conversion online UPS that protects your critical applications against downtime, loss and process interruption.

PowerValue 11 T is suitable for applications that have a requirement for small or extendable autonomies. It is available with inbuilt batteries or with an integrated super charger for extended battery autonomy.

The cabinets (6–10 kVA) can operate in a parallel configuration to provide redundancy or to increase the system's total capacity up to 40 kVA (one to four units).

Highlights

- Online double conversion topology guarantees clean and reliable power for servers, storage and networks
- High efficiency reduces the quantity of power consumed by your installation
- On first startup, no particular configuration is required and installation is simple
- The compact UPS saves valuable space with a slim tower design
- An intuitive LCD interface provides accurate information for easy UPS monitoring, even for the non-specialist
- The wide input voltage range and a high hold-up time minimize battery usage and increase efficiency and battery life
- PowerValue 11 T can run in eco-mode to increase efficiency
- It can operate as frequency converter (50 Hz to/from 60 Hz)
- Automated battery tests ensure an optimized battery management, operation and lifetime



Power protection solution for

- Workstations
- Server and network devices
- Storage systems
- Telecommunications
- Medical systems
- Industrial automation
- Electrical installations
- Security systems

UPS and battery cabinet models

UPS models and runtime		Battery cabinets	Total runtime (at half / full load)				
UPS	Ordering code	Compatible battery cabinet	UPS internal batteries	UPS + 1 cabinet	UPS + 2 cabinets	UPS + 3 cabinets	UPS + 4 cabinets
1 kVA	4NWP100945R0001	4NWP100830R0001	–	14 / 5 min	39 / 14 min	58 / 25 min	85 / 39 min
1 kVA B	4NWP100112R0001	–	14 / 5 min	–	–	–	–
2 kVA	4NWP100946R0001	4NWP100831R0001	–	20 / 7 min	54 / 15 min	85 / 39 min	120 / 54 min
2 kVA B	4NWP100113R0001	–	20 / 9 min	–	–	–	–
3 kVA	4NWP100947R0001	4NWP100831R0001	–	11 / 4 min	31 / 12 min	53 / 21 min	74 / 31 min
3 kVA B	4NWP100114R0001	–	11 / 5 min	–	–	–	–
6 kVA	4NWP100828R0001	4NWP100832R0001	–	18 / 6 min	46 / 18 min	75 / 29 min	103 / 46 min
6 kVA B	4NWP100115R0001	–	18 / 6 min	–	–	–	–
10 kVA	4NWP100829R0001	4NWP100833R0001	–	13 / 4 min	30 / 13 min	56 / 21 min	71 / 30 min
10 kVA B	4NWP100116R0001	–	13 / 4 min	–	–	–	–

Technical specifications

General data	1 kVA (B)	2 kVA (B)	3 kVA (B)	6 kVA (B)	10 kVA (B)
Output rated power	900 W	1800 W	2700 W	5400 W	9000 W
Output power factor	0.9				
Topology	True online double conversion				
Parallel configuration	-			Up to 4	
Input					
Nominal input voltage	200 / 208 / 220 / 230 / 240 Vrms				
Input voltage tolerance	110–300 Vac (depending on the load)			110–276 Vac (depending on the load)	
Input current THD	<5% at full linear load				
Frequency range	45–55 Hz / 54–66 Hz				
Power factor	≥0.99				
Output					
Rated output voltage	200 / 208 / 220 / 230 / 240 VAC			208 / 220 / 230 / 240 VAC	
Voltage tolerance (referred to 230 V)	±2% (static and dynamic)			<1% (static and dynamic)	
Voltage distortion	<3% linear load, <5% non-linear load			<2% linear load, <5% non-linear load	
Overload capability (on inverter)	1 min: 105%–110% 30 s: 110%–125% 10 s: 125%–150% 1 s: >150%		2 min: 105%–125% 30 s: 125%–150% 1 s: >150%		
Overload capability (bypass mode)	10 min: 125–150% 60 s: >150%		60 s: 120–150% 10 s: >150% 1 s: >170%		
Nominal frequency	50 Hz or 60 Hz ±0.2 Hz			50 Hz or 60 Hz ±0.05 Hz	
Frequency tolerance	45–55 Hz / 54–66 Hz				
Output connectors	3 × IEC 320 (C13)	6 × IEC 320 (C13)	4 × IEC 320 (C13) + Terminals	Terminal blocks	Terminal blocks
Efficiency					
AC–AC	≥88%			≥92%	
In eco-mode	≥93%	≥94%		≥96%	
Environment					
Protection rating	IP 20				
Temperature	-15 to +60°C (storage); 0 to +45°C (operation)			0 to +40°C (operation)	
Communications					
User interface	LCD display				
Communication cards	SNMP and AS400 relay card (options)				
Standards					
Regulatory	EC, IEC/EN 62040-1 (Safety), IEC/EN 62040-2 (EMC), IEC/EN 62040-3 (Performance)				
Manufacturing	ISO 9001:2008, ISO 14001:2004				
Weight and dimensions					
Dimensions W × H × D (mm)	145 × 220 × 400	192 × 347 × 460	192 × 347 × 460	260 × 708 × 558	260 × 708 × 558
Weight (UPS without batteries)	7 kg	13 kg	13 kg	25.4 kg	28.3 kg
Weight (UPS with batteries)	13 kg	31 kg	31 kg	80 kg	84 kg
Batteries					
UPS with internal batteries					
Type	VRLA, vented lead-acid				
Battery configuration	3 × 7.2 Ah	8 × 7.2 Ah	8 × 7.2 Ah	20 × 7.2 Ah	20 × 9 Ah
Charging current	1 A	1 A	1 A	1.2 A	1.2 A
UPS without internal batteries					
Charging current (UPS without batteries)	8 A	8 A	8 A	4 A	4 A
External battery cabinets					
Type	VRLA, vented lead-acid				
Battery configuration	(2 × 3) × 7.2 Ah	(2 × 8) × 7.2 Ah	(2 × 8) × 7.2 Ah	(2 × 20) × 7.2 Ah	(2 × 20) × 9 Ah

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