



True double-conversion online single-phase UPS

PowerValue 11 RT
1–10 kVA
Single-phase UPS
for critical applications

Safeguarding your power supply has never been easier



One factor has become increasingly critical for sophisticated small offices and small- to medium-sized enterprises – and that is that more often than not, the business is largely built on a foundation of data. This data has to be safely stored and safe data storage requires a rock-solid supply of power.

Reliable power

ABB's PowerValue is a true double-conversion online uninterruptible power supply (UPS) that guarantees up to 10 kVA of clean, reliable power for your critical single-phase applications. As well as maintaining power to your servers, point-of-sale terminals, workstation clusters, routers, switches, hubs and sensitive electronic equipment, the PowerValue will also condition incoming power to eliminate spikes, swells, sags, noise and harmonics.

Wide Visibility

The monitoring solutions provided with the PowerValue give excellent visibility of the system status and allow remote supervision of the power grid, the battery bank and the UPS.

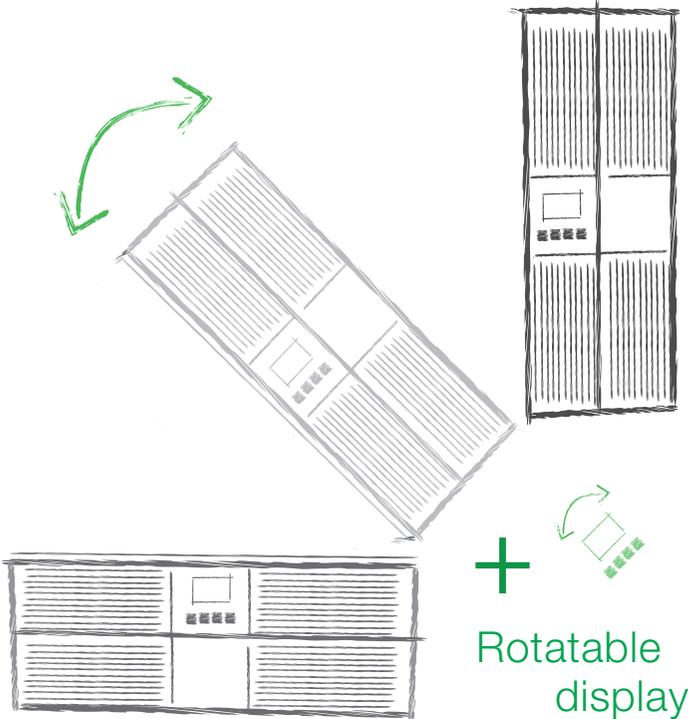
Low Cost of Ownership

The PowerValue was designed to deliver a low total cost of ownership: Its high efficiency means not only that it is cheap to run but the resulting lower cooling costs also keep the power bills low. Easy set-up and maintenance deliver lower operating and maintenance costs, too. An excellent power factor and unique technical features that minimize battery usage and prolong lifetime mean the PowerValue is easy on your pocket all round.

The 6 and 10 kVA PowerValue models have a large integrated charger. This not only gives more flexibility in extending the runtime of the units but it also shortens battery recharge time, thus increasing system availability and reliability, the two most critical parameters of any UPS.

A versatile UPS to meet the demands of a wide range of IT applications

90°



Highlights

- True online double conversion
- Efficiency in online mode up to 95 %
- Efficiency in eco-mode up to 97 %
- Configurable in tower format or rack-mount
- Cold Start available
- Low installation costs (plug and play)
- Easy maintenance
- Frequency converter operation (50 or 60 Hz)
- Full set of communication interfaces:
 - SNMP
 - Potential-free contacts
 - RS-232
 - USB

UPS
1-3 kVA



UPS
6 kVA



UPS
10 kVA



High scalability

Two units of the 6 or 10 kVA models can be configured in parallel to provide redundancy or to increase the systems total capacity up to 20 kVA. All units can be fitted with up to four battery modules to extend runtime.

Compact size

Because space in business premises can be at a premium, the PowerValue has been designed to be extremely compact.

Flexible design

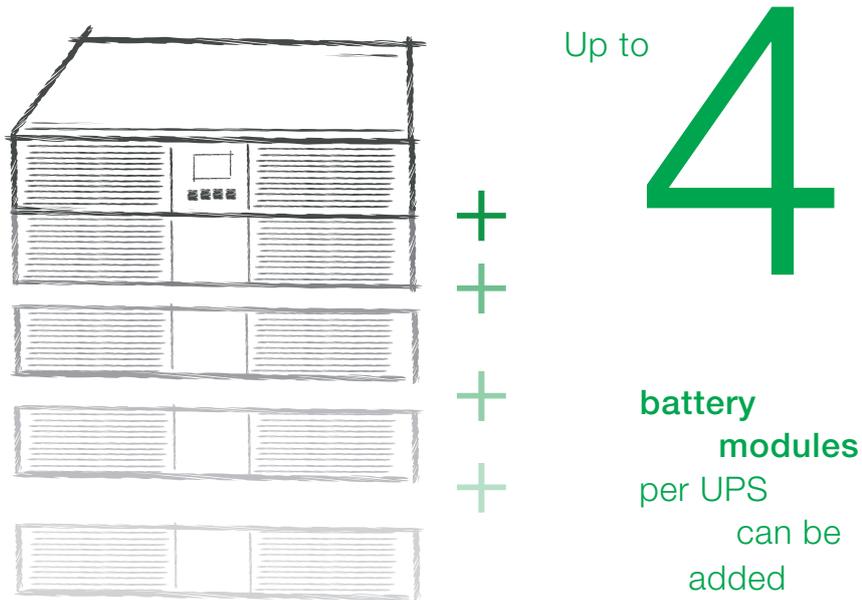
For full flexibility, PowerValue is configurable in tower or rack-mount format. The display is rotatable and therefore easy adjustable to your configuration needs.

Easy serviceability

This ready-to-install and easily configurable UPS keep the installation costs down. Serviceability is additionally enhanced with user-replaceable batteries. The monitoring solutions enable remote fault analysis and ensure proactive component replacement.

Scalable battery runtime

PowerValue can be configured with matching battery modules to satisfy extended runtime demands. Easily replaceable (plug and play) batteries increase availability and reduce Mean Time to Repair (MTTR).



Extended runtime

POWER	1 kVA*	2 kVA*	3 kVA*	6 kVA*	10 kVA*
UPS internal batteries	5 / 15	3 / 10	3 / 10	-	-
UPS +1 batt module	27 / 67	15 / 41	16 / 44	6 / 16	4 / 13
UPS +2 batt modules	53 / 124	30 / 82	32 / 87	16 / 42	13 / 30
UPS +3 batt modules	86 / 184	50 / 117	53 / 122	28 / 60	20 / 51
UPS +4 batt modules	113 / 246	68 / 160	74 / 167	42 / 96	30 / 68

*Battery autonomy in minutes at full / half load

Technical Specifications

GENERAL DATA	1000 VA	2000 VA	3000 VA	6000 VA	10000 VA
Output rated power [W]	900 W	1800 W	2700 W	5400 W	9000 W
Output power factor	0.9				
Part number	4NWP100100R0001	4NWP100101R0001	4NWP100102R0001	4NWP100103R0001	4NWP100104R0001
Topology	True online double conversion				
Parallel configuration	No			Up to 2 units	
Inbuilt batteries	yes			no	
INPUT					
Nominal input voltage	208 / 220 / 230 / 240 V _{AC}				
Input voltage tolerance	120-276 V _{AC} (depending on load level)				
Input current THD	<5% with full resistive load				
Frequency range	45-55 Hz / 54-66 Hz				
Power factor	≥0.99				
OUTPUT					
Rated output voltage	208 / 220 / 230 / 240 V _{AC}				
Voltage tolerance	±1% (referred to 230V)				
Voltage distortion	≤2% linear load, ≤5% non-linear load				
Overload capability on inverter	12 s.: 102%-130% load	1.5 s.: 130%-150% load		2mins.: 102%-130% load	30s.: 130%-150% load
	100 ms.: >150% load			100ms.: >150% load	
Nominal frequency	50 or 60 Hz ± 0.2 Hz				
Frequency tolerance	45-55 Hz / 54-66 Hz				
Crest Factor	3:1				
EFFICIENCY					
AC-AC	Up to 93%			Up to 94.6%	
In eco-mode	≥ 95%			≥ 97%	
ENVIRONMENT					
Protection rating	IP 20				
Storage temperature	-15 – +60°C				
Operating temperature	0 – 40°C				
Relative humidity	0-95% (Non-condensing)				
Altitude (above sea level)	1000m without de-rating				
BATTERIES					
Type	VRLA, vented lead-acid				
Backup time (100% load)	> 5 minutes	>3 minutes	>3 minutes	-	-
Battery configuration	3 x 12 V x 7.2 Ah	4 x 12 V x 9 Ah	6 x 12 V x 9 Ah	-	-
Charging current	1.5 A			8 A	
Recharge time	3 hours to 90%			External battery dependent	
COMMUNICATIONS					
User interface	LCD display				
Communication cards	SNMP (option), AS400 Relay card (option)				
STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Manufacturing	ISO 9001:2008, ISO 14001:2004				
WEIGHT, DIMENSIONS					
Weight	16.2 kg	19.7 kg	28.6 kg	20.1 kg	28.1 kg
Dimensions W x H x D (mm)	438 x 86.5 x 436	438 x 86.5 x 436	438 x 86.5 x 608	438 x 129 x 594	438 x 215.5 x 594
BATTERY MODULES					
Weight	22.2 kg	27.5 kg	40.5 kg	48.4 kg	62.5 kg
Dimensions W x H x D (mm)	438 x 86.5 x 436	438 x 86.5 x 436	438 x 86.5 x 608	438 x 129 x 594	438 x 129 x 594

*Technical specifications are subject to change without notice.

Contact us

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