

The single-phase UPS for critical applications



ABB's PowerValue11RT is a double-conversion online 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 PowerValue11RT also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics. The PowerValue 11 RT can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

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.

High reliability

- Reliable double conversion topology protects load from all input disturbances
- · Batteries can be added or replaced easily
- Reduced recovery time from discharge
- Redundant parallel operation available (6 and 10 kVA units)

Low cost of ownership

- Scalable runtime
- · High operating efficiency, regardless of loading
- · Reduced installation and upgrading costs
- Compact design

Flexible design

- Configurable in tower or rack-mount format
- Rotatable display
- UPS can be connected with up to four parallel battery modules for extended runtime
- · Long backup models available

Efficient service concept

- Manually operated maintenance bypass switch (optional)
- Easy set up and maintenance (plug and play)
- · User-friendly display
- User-replaceable batteries
- Remote monitoring and connectivity options

Product features

The advanced system architecture guarantees that the user is able to select a system to match their needs. Scalable runtime and the easy introduction of additional batteries make the solution sustainable.

In addition, two PowerValue11RT 6 or 10kVA UPSs can be connected in parallel to increase total power or to add redundancy. The UPSs are delivered with an installed parallel board and paralleling cables. No additional hardware is required for a parallel installation.







Scalable battery runtime

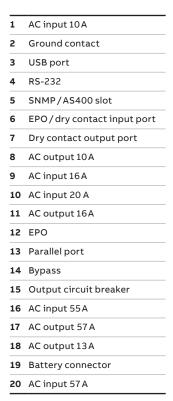


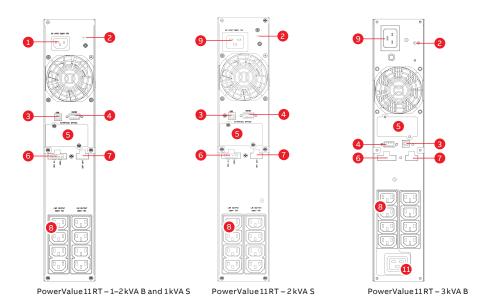


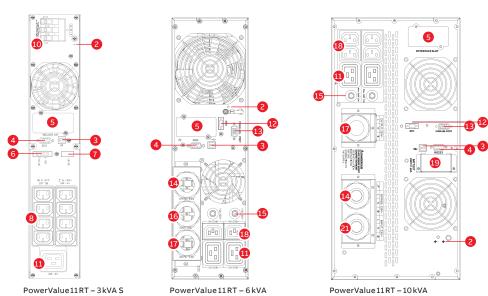
Battery runtime at full / half nominal load

	1kVA B		1kVA S		2 kVA B		2 kVA S		3 kVA B		3 kVA S		6kVA		10kVA	
	100	% 50%	1009	%50%	100	% 50%	1009	650%	1009	%50%	100%	650%	100%	50%	100%	50%
UPS	<4	8	n.a.	n.a.	4	11	n.a.	n.a.	4	11	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
UPS+1EBM	16	40	6	22	12	29	<5	11	13	31	<5	10	6	16	5	13
UPS+2EBM	32	76	22	62	22	54	11	34	23	56	10	34	16	36	13	29
UPS+3EBM	52	119	40	112	32	78	22	62	35	82	21	61	26	59	20	47
UPS+4EBM	68	166	62	160	45	105	34	99	49	111	33	98	36	84	29	68

Available models







UPS cabinet configuration

- Online double conversion UPS
- Efficiency in online mode up to 94.6%
- Efficiency in eco-mode up to 97%
- Configurable in tower format or rack-mount
- Two 6 kVA and 10 kVA UPSs can be connected in parallel for redundancy or extra capacity
- Cold start
- Frequency converter operation (50 Hz or 60 Hz)
- Interfaces: USB, RS-232, potential-free contacts, EPO contact inputs
- Emergency power-off for remote shutdown
- Load segmentation (for PowerValue 11RT 1-3 kVA)

Options

- Rack installation kit allows for easy mounting to standard rack
- Software and connectivity options, including ModBus
 - RS-485, ModBus TCP/IP, SNMP
- Maintenance bypass PDU 16A (for PowerValue11RT 1–3kVA)



Technical specification

General data	1kVA B	1kVA S	2kVA B	2 kVA S	3 kVA B	3 kVA S	6 kVA	10kVA		
Output rated power	900W	900W	1800W	1800W	2700W	2700W	5400W	9000W		
Output power factor	0.9	300.1	2000	1000	2.0011	2.0011	3.00			
Topology		le conversion								
Parallel configuration	No		Up to 2 units							
Inbuilt batteries	Yes	No	Yes	No	Yes	No	No	No		
Input										
Nominal input voltage	208/220/2	30/240VAC								
Input voltage tolerance	120–276VAC (depending on load level)									
Input current THDi	<5% with ful									
Frequency range	45-55 Hz/54									
Power factor	≥0.99									
Output										
Rated output voltage	208/220/23	30/240VAC					'			
Voltage tolerance	±1% (referre	d to 230V)								
Voltage distortion	≤2% linear lo	ad, ≤5% non li	near load							
Overload capability	12s.: 10	2-130% load					2 mins.:	102-130% load		
on inverter		30–150% load					30s.:	130-150% load		
	100 ms.: >1						100 ms.:	>150% load		
Nominal frequency	50 Hz or 60 H									
Crest Factor	3:1 (load sup	pported)								
Efficiency										
Overall efficiency	Up to 93%						Up to 94.6	%		
In eco-mode	≥95%						≥97%			
Environment										
Protection rating	IP20									
Storage temperature			ries: 0°C to +35	5°C						
Operating temperature	0°C to +40°C									
Relative humidity	0% to 95% (Non-condensing)									
Altitude (above sea level)	1000 m with	out derating					,			
Battery										
Туре	VRLA (vente	d lead-acid)								
Battery configuration	1×3×7.2Ah	-	1×4×9Ah	-	1×6×9Ah	-	-			
Charging current	1.5 A	6A	1.5 A	6A	1.5A	6A	8 A	8 A		
Recharge time	3 n to 90% (c	only 1–3 kVA B)					External b	attery dependent		
Communications										
User interface	LCD	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	17							
Communication cards	SNMP (optio	n), AS400 Rela	y card (option)							
Standards	JEG /EN GOO	40.1								
Safety	IEC / EN 620									
EMC	IEC / EN 620									
Performance	IEC / EN 62040-3 ISO 9001:2015, ISO 14001:2015, OHSAS18001									
Manufacturing Weight, dimensions	150 9001:20.	15, 150 14001:2	:015, OHSAS18	001						
	16.21	0.41	10.71	0.21.0	20.61	12.01	20.11	20.11		
Weight	16.2 kg	8.4 kg	19.7 kg	9.3 kg	28.6 kg	13.0 kg	20.1 kg	28.1kg		
Dimensions w×h×d	438×86.5 ×436mm		438×86.5 ×436mm		438×86.5 ×608mm		438×129 ×594mm	438×215.5 ×594 mm		
Battery modules							557111111			
Weight	22.2 kg		27.5 kg		40.5 kg		48.4kg	62.5 kg		
Dimensions w×h×d	438×86.5		438×86.5		438×86.5		438×129	438×129		
and to the William	×436 mm		×436mm		×608mm		×594mm	×594mm		
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