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PowerValue 11 RT G2 IN

The single-phase UPS for
critical applications



- Redundant parallel operation available (6 and 10 kVA units)
- High operating efficiency, regardless of loading
- Configurable in tower or rack-mount format
- Rotatable display

Electronic equipment supporting critical systems requires a continuous supply of power.

ABB's PowerValue 11 RT G2 IN guarantees a flexible solution upto 40kW with clean uninterrupted power for critical single phase applications.

The PowerValue 11 RT G2 IN can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

Table of contents

4	The single-phase UPS for critical applications
5	Product features
6	Available models
7	Technical specifications

PowerValue 11 RT G2 IN

The single-phase UPS for critical applications

ABB's PowerValue 11 RT G2 IN 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 PowerValue 11 RT G2 IN also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

The PowerValue 11 RT G2 IN can be used as a standalone UPS device or installed into a standard 19" rack configuration, with connectivity options available for each.

Four 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 40 kW. 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

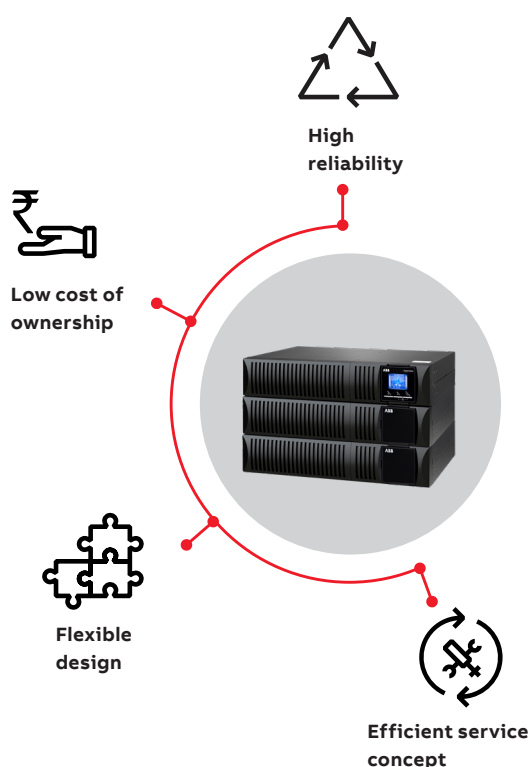
- Scalable runtime
- High operating efficiency, regardless of loading
- Reduced installation and upgrading costs
- Compact design

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
- Full set of accessories and connectivity options

Efficient service concept

- Easy set up and maintenance (plug and play)
- User-friendly display

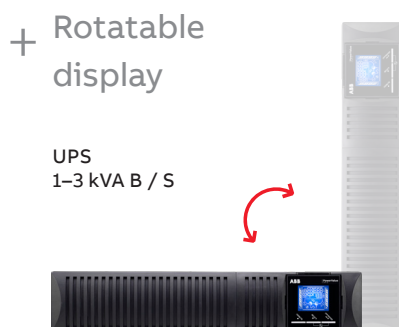


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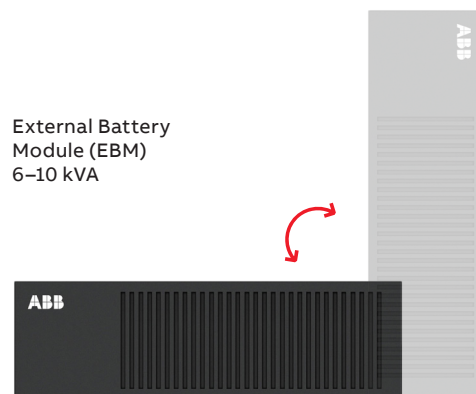
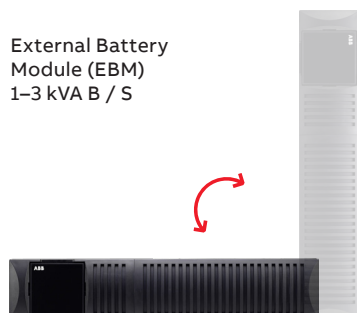
Product features

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, three PowerValue 11 RT G2 IN 6 or 10 kVA 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 Autonomy

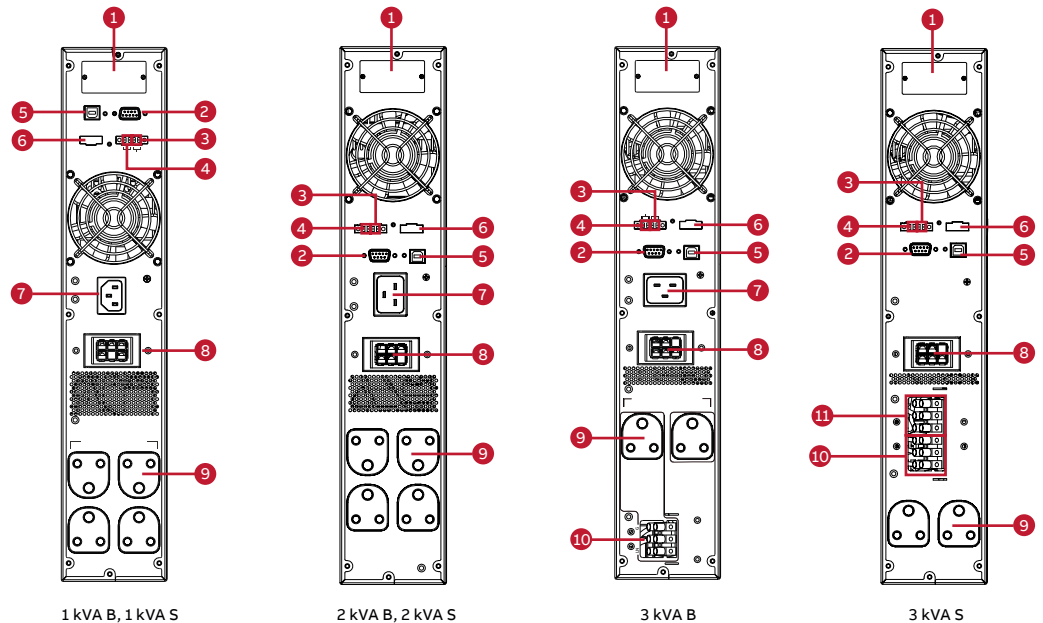
UPS Rating and Model	UPS internal batteries	Backup time with internal batteries	Back up time UPS + 1 EBM	Back up time UPS + 2 EBM	Back up time UPS + 3 EBM	Back up time UPS + 4 EBM
11RT 1kVA B	1 x 2 x 9.4 Ah	4/6/10/23	21/30/48/104	40/55/86/179	59/81/124/255	79/106/162/331
11RT 1kVA S			12/18/29/66	30/42/67/141	49/73/105/217	69/94/143/293
11RT 2kVA B	1 x 3 x 9.4 Ah	4/6/11/23	21/30/49/105	40/56/87/181	60/82/126/258	80/108/164/335
11RT 2kVA S			12/18/30/68	31/44/69/145	50/70/108/222	70/96/147/300
11RT 3kVA B	1 x 4 x 9.4 Ah	4/6/11/24	22/31/50/108	42/57/89/186	61/84/129/264	82/99/168/343
11RT 3kVA S			13/19/32/72	32/45/72/152	51/72/112/233	72/98/152/315
11RT 6kVA			7/10/18/49	20/28/49/133	33/49/88/180	49/75/133/180
11RT 10kVA			3/5/9/23	10/13/24/64	16/24/43/115	24/36/64/173

Remark: Battery autonomy in minutes at 100/75/50/25% load

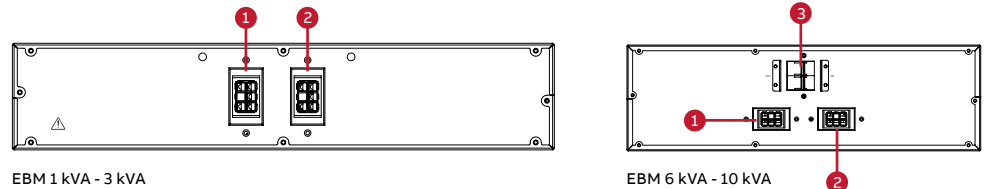
PowerValue 11 RT G2 IN

Available models

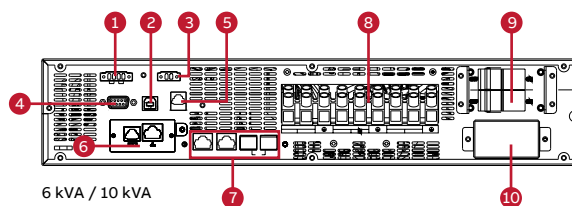
1	SNMP/AS400 Slot
2	RS-232
3	Dry Contact input
4	EPO port
5	USB port
6	Dry Contact output
7	AC input 10 A
8	EBM connector
9	AC output 10 A
10	AC output 20 A
11	AC input 20 A



1	Downstream EBM output
2	Upstream EBM input
3	DC Breaker



1	Dry input/output
2	USB port
3	EPO port
4	RS-232
5	RJ-11(PDU connection)
6	SNMP slot
7	Parallel connection
8	Input/Output terminals
9	Input breaker
10	EBM connector



Options

- Rack installation kit allows for easy mounting to standard 19" rack
- Full range connectivity: SNMP, ModBus (RS-485 and TCP/IP), environmental monitoring probe, relay card with I/O contacts
- External maintenance bypass
- Automatic transfer switch (PowerValue 11RT G2 IN 1-3 kVA)

UPS cabinet configuration

- Online double conversion UPS
- Efficiency in online mode up to 94%
- Efficiency in eco-mode up to 98%
- Configurable in tower format or rack-mount
- Four 6 kVA and 10 kVA UPSs (max 40 kW per system) can be connected in parallel for redundancy or extra capacity
- Cold start
- Interfaces: USB, RS-232, potential-free contacts, EPO contact inputs
- Emergency power-off for remote shutdown

PowerValue 11 RT G2 IN

Technical specifications

GENERAL DATA	1kVA B/ S	2kVA B/ S	3kVA B/ S	6kVA	10kVA
Output rated power	1000 W	2000W	3000W	6'000W	10'000W
Output power factor	1.0	1.0	1.0	1.0	1.0
Topology	Online double conversion				
Parallel configuration	No	No	No	Yes, up to 4 UPS	Yes, up to 4 UPS
Inbuilt batteries	Yes/No	Yes/No	Yes/No	No	No
INPUT					
Nominal input voltage	208/220/230/240 Vac				
Input voltage tolerance	120-300 Vac (load dependent)			100-276 (load dependent)	
Input current THDi	<5% with full resistive load			<5% with full resistive load	
Frequency range	45-55 Hz			45-55Hz	
Power factor	≥0.99			≥0.99	
OUTPUT					
Rated output voltage	208/220/230/240 Vac				
Voltage tolerance	±1% (referred to 230V)				
Voltage distortion	≤2% linear load, ≤5% non linear load			<2% linear load, <4% non linear load	
Overload capacity (linear load) on inverter	60s: 105-130% load			10m: 105-120% load	
	10s: 131-150% load			30s: 126 to 150% load	
	0.3s: > 150% load			500 ms: ≥ 150% load	
Nominal frequency	50 Hz				
Crest factor	3:1 (load supported)				
EFFICIENCY					
Overall system efficiency	Up to 89%	Up to 91%	Up to 92%	Up to 94%	
In eco-mode	Up to 97.5%	Up to 98%	Up to 98%	Up to 98%	
ENVIRONMENT					
Protection rating	IP20				
Storage temperature	UPS: -15°C to 60°C; Batteries: 0°C to 40°C			UPS: -15°C to 60°C;Batteries: 0°C to 35°C	
Operating temperature	0°C to 50°C			0°C to 40°C	
Relative humidity	0% to 95%				
Altitude (above sea level)	1000m without derating				
BATTERIES					
Type	VRLA (valve regulated lead-acid)				
Inbuilt batteries	2x9.4 Ah (B)	3x9.4 Ah(B)	4x9.4 Ah(B)	-	-
Charging current	1.5A/6A	1.5A/6A	1.5A/6A	0-12 A adjustable	
COMMUNICATIONS					
User interface	LCD display				
Optional communication cards	SNMP;ModBus;AS400;Environmental monitoring sensor probe				
STANDARDS					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Manufacturing	ISO 9001:2015, ISO 14001:2015, OHSAS 18001				
WEIGHT, DIMENSIONS					
Weight	11.4 (B)	19.12 (B)	27.94 (B)	15 Kg	15 Kg
	5.83 Kg (S)	8.74 Kg (S)	9.05 Kg (S)		
Dimensions w x h x d	438x86.2	438x86.2	438x86.2	438x86.5	438x86.5
	x309.8mm	x426.5mm	x629.8mm		

