

PowerValue 11 RT G2 1-3 kVA UL

The single-phase UPS for critical applications



ABB's PowerValue 11 RT G2 is a double-conversion online UPS that guarantees 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 also conditions incoming power to eliminate spikes, swells, sags, noise and harmonics.

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

Low cost of ownership

- Unity or close to unity power factor (kW = kVA)
- 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 six external battery modules (EBMs) for extended runtime
- Full set of accessories and connectivity options

Efficient service concept

- Easy set-up and maintenance (plug-and-play)
- User-friendly display
- Hot-swap user-replaceable internal batteries

PowerValue 11 RT G2

Product features

Scalable runtime

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.

Easy installation and maintenance

Ease of installation and operation is guaranteed. The 1-3 kVA module is a plug-n-play device where all you need to do is to plug it in a wall socket to begin protection.

All models have a versatile orientation (rack or tower), just by rotating the display; this is as easy as pushing a button. Mechanical accessories for securing the installation in standard 19" racks or in a vertical position are included in each UPS. Optional rail mounting kit is also available.

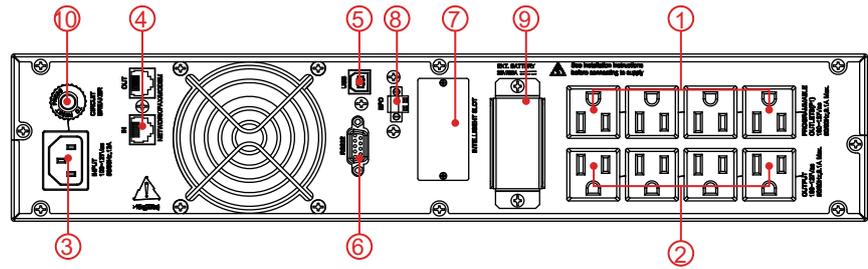


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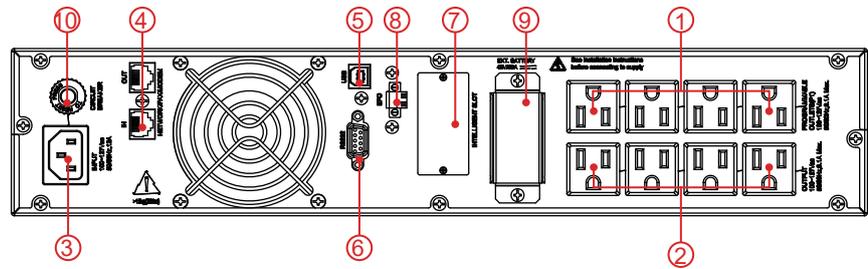
Available models

- | | |
|----|-------------------------------------------------------|
| 1 | Programmable outlets: connect to non-critical loads |
| 2 | Output receptacles: connect to mission-critical loads |
| 3 | AC input |
| 4 | Network/Fax/Modem surge protection |
| 5 | USB communication port |
| 6 | RS-232 communication port |
| 7 | SNMP intelligent slot |
| 8 | Emergency power off function connector (EPO) |
| 9 | External battery connection |
| 10 | Circuit breaker |

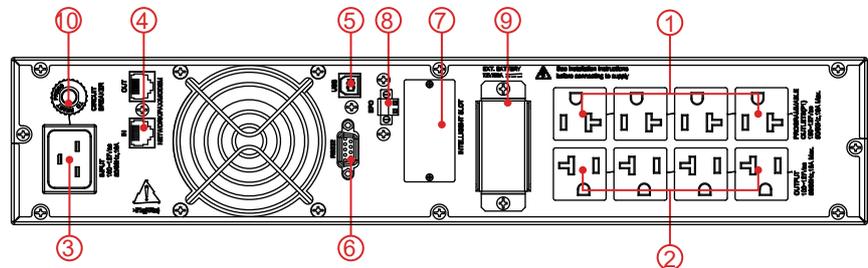
1 kVA



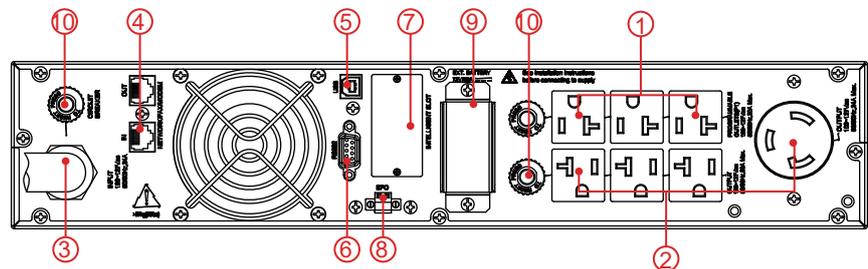
1.5 kVA



2 kVA



3 kVA



Options

- Rack installation kit allows for easy mounting in standard 19" rack
- Full-range connectivity: SNMP, ModBus (RS-485 and TCP/IP), environmental monitoring probe, relay card with I/O contacts
- High capacity external battery modules (EBMs) to scale up the system runtime

UPS configuration

- Online double conversion UPS
- Unity (kVA = kW) or close to unity power factor
- Efficiency in online mode up to 90%
- Efficiency in eco-mode up to 96%
- Configurable in tower format or rack-mount
- Cold start
- Frequency-converter operation (50 Hz or 60 Hz)
- Interfaces: USB, RS-232, potential-free contacts, EPO
- Load segmentation: dedicated receptacles for critical and less critical loads

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Technical specification

GENERAL DATA	1 kVA	1.5 kVA	2 kVA	3 kVA
Output rated power	1 kW	1.45 kW	1.93 kW	2.88 kW
Topology	Online double conversion			
Parallel configuration	No	No	No	No
Inbuilt batteries	Yes	Yes	Yes	Yes
INPUT				
Nominal input voltage	100 / 110 / 115 / 120 / 125 VAC			
Acceptance voltage	55-150VAC (de-rating to 60% @60V)			
Input current THDi	<5 % with full resistive load			
Frequency range	45-55 Hz for 50 Hz systems; 54-66 Hz for 60 Hz systems			
Power factor	≥ 0.99 @ 100% load			
OUTPUT				
Rated output voltage	100 / 110 / 115 / 120 / 125 VAC			
Voltage tolerance	±1 %			
Voltage distortion (linear load)	< 2%	< 2%	< 2%	< 2%
Voltage distortion (non-linear load)	< 4%	< 4%	< 4%	< 4%
Overload capacity (linear load) on inverter	1.5 s: 140% load; 30 s: 130% load; 300 s: 110% load (line mode) 1.5 s: 140% load; 10 s: 130% load; 120 s: 110% load (battery Mode)			
Nominal frequency	50 or 60 Hz			
Crest factor	3:1 (load supported)			
EFFICIENCY				
Overall system efficiency	Up to 90 %			
In eco-mode	Up to 96 %			
ENVIRONMENT				
Protection rating	IP20			
Storage temperature	UPS: -4°F - +122°F (-20°C - +50°C); batteries: 32°F to 95°F (0°C to 35°C)			
Operating temperature	32°F to 104° F (0°C to 40°C)			
Relative humidity	0 % to 95 %			
Altitude (above sea level)	1000 m without derating			
BATTERIES				
Type	VRLA (valve regulated lead-acid)			
Inbuilt batteries	1 x 3 x 9Ah	1 x 4 x 9Ah	1 x 6 x 9Ah	1 x 6 x 9Ah
Max charging current	6A	6A	6A	6A
COMMUNICATIONS				
User interface	LCD			
Optional communication cards	SNMP; ModBus; AS400; Environmental monitoring sensor probe			
STANDARDS				
Safety	UL 1778 5th / CSA-C22.2 No. 107.3			
EMC	FCC part 15 class A			
Performance	IEC/EN 62040-3			
Manufacturing	ISO 9001:2015, ISO 14001:2015, OHSAS 18001			
WEIGHT, DIMENSIONS				
Weight	31.7lbs (14.4 kg)	43.0lbs (19.5 kg)	49.6 lbs (22.5 kg)	60.6 lbs (27.5 kg)
Dimensions w x h x d	17.2" x 3.4" x 16.1" (438x88x410 mm)	17.2" x 3.4" x 20" (438x88x510 mm)	17.2" x 3.4" x 24.8" (438x88x630 mm)	17.2" x 3.4" x 24.8" (438x88x630 mm)