



Powerware

Powerware® 9315-200 Uninterruptible Power System

Product Focus

Model 200 200 kVA/180 kW/160 kW



Features

- DC Expert® battery management system featuring: +/- 3% battery runtime; Battery health indication
- Powerware Hot Sync™ technology for parallel redundancy and capacity scalability
- Large display panel provides metering, statistics, alarm history and an active mimic screen
- Prioritized cooling of components
- Power Management Software compatibility
 - PowerVision®, LanSafe™, FORESEER®
 - Software Suite CD is bundled with the UPS
- Connectivity options
 - ConnectUPS-X Web Card, Modbus Card, Single port serial Card
 - Environmental Monitoring Probe for ambient temperature and humidity monitoring (requires the Web Card option)
 - Expansion Chassis available for increased communications capabilities
- Intelligent input filter option

Output Specifications

Voltage THD:	Less than 5% (100% non-linear load with 3:1 crest factor); (less than 3% 100% linear load)
Voltage regulation:	Better than ±1%
Transient response:	Less than 5% for 100% load step; full recovery within 1 cycle
Frequency:	(free run) ±0.005 Hz
Frequency sync range:	±0.5 Hz
Frequency slew rate:	1 Hz/second maximum
Voltage adjustment range (operator):	±5%

Environmental Specifications

Ambient temp:	0°C to +40°C
Storage:	-20°C to +70°C
Relative humidity:	5-95% non-condensing
Altitude:	1500 meters (5000 ft.) at 40°C ambient temperature without load derating
Audible noise:	Less than 65 dBA at 1 meter; in accordance with ISO 7779
Electrostatic discharge:	Withstands 8 kV without damage or disturbance to the load; exceeds requirements of IEC 801-2
EMC:	Meets FCC Class A and EN 50091-2 (CISPR 22, Class A)

Safety

EN 50091-1
All cabinets provide seismic mounting features
Selectable DC ground fault detection capability

Input Specifications

Voltage range:	(See chart on other side)
Frequency range:	(60 Hz) 57-63 Hz (50 Hz) 47-53 Hz
Surge protection:	Meets ANSI C62.41, Category A & B, EN 50091-2 and EN 50082-2
Power factor:	0.95 typical at full load with input filter.
Input current distortion:	less than 7% with input filter

Battery Specifications

Matching cabinets:	Line-up and remote available
Battery type:	Sealed, valve regulated lead acid
Recharge time:	10-12 times the discharge time to 95%
Other battery options:	Wet cell batteries; open racks available

For battery runtimes and configurations, refer to Bulletin BAT01FXA

Communications

Software Compatibility:	PowerVision®, LanSafe™, FORESEER®
Communication Cards:	ConnectUPS-X Web Card Modbus Card Single port serial Card Environmental Monitoring Probe (EMP)*

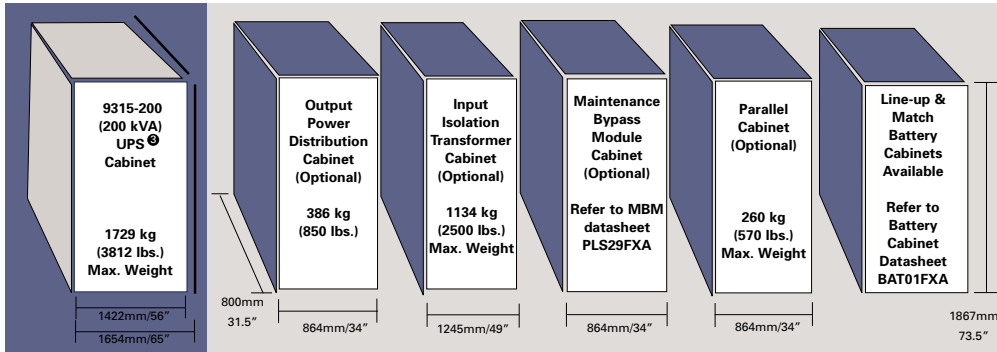
* Requires ConnectUPS-X Web Card

POWERWARE 9315-200 PERFORMANCE CHARACTERISTICS

		Model 200	
		200 kVA/ 160 kW	200 kVA/ 180 kW ^①
Input voltage ^②	volts	400	400
Output voltage ^②	volts	400	400
Input voltage range			
Minimum	volts	340	340
Maximum	volts	440	440
Input/output frequency	Hz	50/60	50/60
AC input (with input filter)			
Nominal amps	amps	254	313
Maximum amps	amps	317	348
AC input (without input filter)			
Nominal amps	amps	288	357
Maximum amps	amps	360	397
Bypass input			
Nominal amps	amps	290	290
AC output			
Nominal amps	amps	290	290
10 minutes max.	amps	363	363

		Model 200	
		200 kVA/ 160 kW	200 kVA/ 180 kW ^①
DC link			
Nominal DC voltage	volts	420	420
Float voltage	volts	473	473
End of discharge	volts	351	351
Maximum amps @1.8v/cell	amps	457	514
Physical attributes (w/o batt.)			
Installed weight	lb.	3812	3812
Installed width	inches	65	65
System efficiencies (typical)			
@ 100% load	%	93	92.8
@ 75% load	%	93	92.6
@ 50% load	%	92	92.4
Full load heat dissipation			
BTU/hr. (x1000)		47.8	55.9
KCal/hr. (x1000)		12.5	14.1
Inverter efficiency (full load)	%	94	94

Physical Dimensions and Weights



Due to continuing improvement programs specifications are subject to change without notice. Battery runtimes are approximate and may vary with equipment, configuration, battery age, temperature, etc.

- ① Optional .9 power factor.
- ② Easily adjustable for 380 or 415 VAC Input/Output, 50 or 60 Hz
- ③ All accessories feature plug and play capability.

Shipping pallet and packaging adds 50 to 300 lbs. per shipping unit. Specifications subject to change without notice.



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