

Powerware® 9315-500

Features

- ▶ DC Expert™ battery management system
 - ▶ +/- 3% battery run time
 - ▶ Battery health indication
- ▶ Powerware Hot Sync® Redundant and Capacity capability
- ▶ Large display panel provides metering, statistics, alarm history and an active mimic screen
- ▶ Prioritized cooling of components
- ▶ Flexible communication capability
 - ▶ Local communication
 - Monitor panel
 - Illuminated indicators
 - Control panel
 - ▶ Remote communications
 - Relay interface contacts
 - Building alarm contacts (programmable)
 - Summary alarm contacts
 - RS232 port (standard)
 - EPO kit
 - Remote monitor panel
- ▶ Communications options
 - ▶ Optional communication cards
 - ConnectUPS-X SNMP/Web card
 - Multi-server card (5-RS232 serial port output)
 - Single port serial card
 - Expansion chassis (Modbus card standard plus 2 open slots)
- ▶ Intelligent input filter option
- ▶ Prioritized cooling



Powerware® 9315-500

Model 400 400kVA/320kW

Model 500 500kVA/400kW

Environmental Specifications

Ambient temperature:	0°C to +40°C
Storage:	-20°C to +70°C
Relative humidity:	5-95% non-condensing
Altitude:	1500 meters (5000ft.) at 40°C ambient temperature without load derating
Audible noise:	Less than 72 typically dBA at 1 meter; in accordance with ISO 7779

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

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%

Electrostatic discharge:

Withstands 25kV 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)

Battery Specifications

Matching cabinets – Line-up or remote option available

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

For battery run times and configurations, refer to Bulletin BAT01FXA.

Safety

UL1778 Listed
cUL CAN/CSA C22.2 NO.107.1-M91 Listed
EN 50091-1
All cabinets provide seismic mounting features
Selectable DC ground fault detection capability

Powerware Recommends

Software	Connectivity	Service	System Solutions
> PowerVision® > LanSafe™ > FORESEER®	> ConnectUPS-X SNMP/WEB card > Single port serial card > Expansion Chassis	> ProActive Service Plan > Preventive Maintenance > CELLWATCH®	> Powerware Hot Sync® > PF² Flywheel > PDM > RPP > External Maintenance Bypass

Please contact your sales representative for a solution tailored to your specific needs.

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Powerware 9315-500 Performance Characteristics					
		Model 500	Model 400		
		500kVA/400kW	400kVA/320kW		
Input voltage	Volts	480	480	480	208
Output voltage	Volts	480	480	208	208
Input voltage range					
Minimum	Volts	408	408	408	177
Maximum	Volts	528	528	528	229
Input / output frequency	Hz	60	60	60	60
AC input (with input filter)					
Nominal amps	Amps	556	445	445	1025
Maximum amps ¹	Amps	640	560	560	1280
AC input (without input filter)					
Nominal amps	Amps	654	523	523	N/A
Maximum amps ¹	Amps	800	640	640	N/A
Bypass input					
Nominal amps	Amps	600	480	480	1280
AC output					
Nominal amps	Amps	600	480	1110	1110
10 minutes max.	Amps	750	600	1388	1388
DC link					
Nominal DC voltage	Volts	480	480	480	480
Float voltage	Volts	540	540	540	540
End of discharge ²	Volts	401	401	401	401
Maximum amps ²	Amps	1000	800	800	800
Physical attributes (w/o batt.)					
Installed weight	Lbs	6100	6100	10,100	14,100
Installed width	Inches	74	74	123	123
System efficiencies (Typical)					
@ 100% load	%	94	94	93	93
@ 75% load	%	94	94	93	93
@ 50% load	%	94	92	92	91
Full load heat dissipation					
BTU/Hr. (x1000)		87.2	69.7	82.3	82.3
KCal/Hr. (x1000)		22.0	17.6	20.7	20.7
Inverter efficiency (full load)	%	95	95	95	95

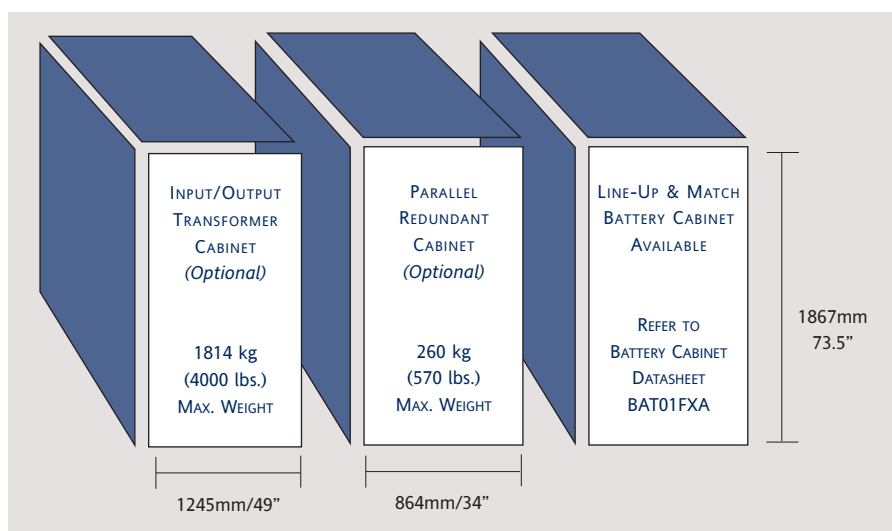
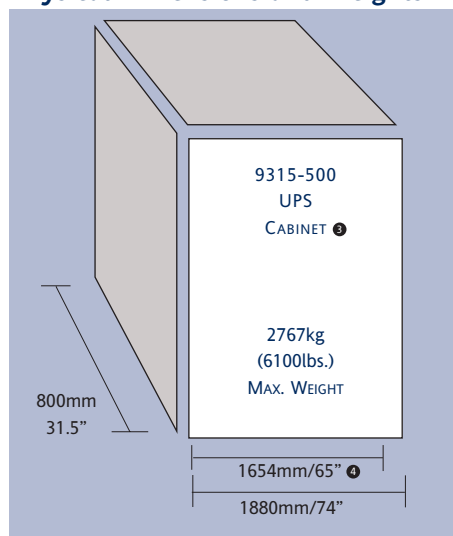


- ¹ Maximum amps equals full load current plus battery recharge current.
- ² End on Discharge based on 1.67 v/cell.
Maximum Amps based on 1.8 v/cell.
- ³ All accessories feature plug and play capability.
- ⁴ Removable wireway section reduces width by 9" to aid installation.
- ⁵ Refer to Installation Manual for actual system Line-ups.

Shipping pallet and packaging adds
50 to 300 lbs. per shipping unit.

Specifications subject to change
without notice.

Physical Dimensions and Weights ⁵



Powerware

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