

# Powerware® 9315-65

Model 50 50kVA/40kw

Model 65 65kVA/52kw

## Features

- ▶ DC Expert™ battery management system featuring:
  - +/- 3% Battery Run Time
  - Battery health indication
- ▶ Powerware Hot Sync™ Redundant capability
- ▶ Large display panel provides metering, statistics, alarm history and an active mimic screen
- ▶ Prioritized cooling of components
- ▶ Flexible communication capability
  - Local communications
    - 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
  - Embedded communications slot to accept the following cards:
    - ConnectUPS-X SNMP/Web card
    - Multi-server card (S-RS232 serial port output)
    - Single port serial card
  - Expansion chassis available for increased communications capabilities
- ▶ Intelligent input filter option



### Input Specifications

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

### Output Specifications

<b>Voltage THD</b>	Less than 3% for 100% linear load. Less than 5% for 100% non-linear load with 3:1 crest factor
<b>Voltage regulation</b>	Better than ±1%
<b>Transient response</b>	Less than 5% for 100% load step; full recovery within 2.5ms
<b>Frequency (free run)</b>	±0.005 Hz
<b>Frequency sync range</b>	±0.5 Hz
<b>Frequency slew rate</b>	1 Hz/second maximum
<b>Voltage adjustment range (operator)</b>	±5%

### Environmental Specifications

<b>Ambient temp storage</b>	0°C to +40°C -20°C to +70°C
<b>Relative humidity altitude</b>	0-95% non-condensing 1500 meters (5000 ft.) at 40°C ambient temperature without load derating
<b>Audible noise</b>	Less than 65 dBA at 1 meter; in accordance with ISO 7779
<b>Electrostatic discharge</b>	Withstands 25 kV without damage or disturbance to the load; exceeds requirements of IEC 801-2
<b>EMC</b>	Meets FCC Class A and EN 50091-2 (CISPR 22, Class A)

### Battery Specifications

<b>Matching cabinets</b>	Remote option available
<b>Battery type</b>	Sealed, valve regulated lead acid
<b>Recharge time</b>	10-12 times the discharge time to 95%
<b>Other battery options</b>	Wet cell and nickel-cadmium batteries; open racks available <i>For battery runtimes and configurations, refer to Bulletin BAT01FXA.</i>

### Safety

<b>UL1778 Listed</b>	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
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## Powerware Recommends

Software	Connectivity	Service	System Solutions
<ul style="list-style-type: none"> <li>&gt; PowerVision®</li> <li>&gt; LanSafe™</li> <li>&gt; FORESEER®</li> </ul>	<ul style="list-style-type: none"> <li>&gt; ConnectUPS-X SNMP/WEB card</li> <li>&gt; Multi-server card</li> </ul>	<ul style="list-style-type: none"> <li>&gt; ProActive Service Plan</li> <li>&gt; Preventive Maintenance</li> <li>&gt; CELLWATCH®</li> </ul>	<ul style="list-style-type: none"> <li>&gt; PF² Flywheel</li> <li>&gt; PDM</li> <li>&gt; RPP</li> <li>&gt; Powerware Hot Sync</li> <li>&gt; External Maintenance Bypass</li> </ul>

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

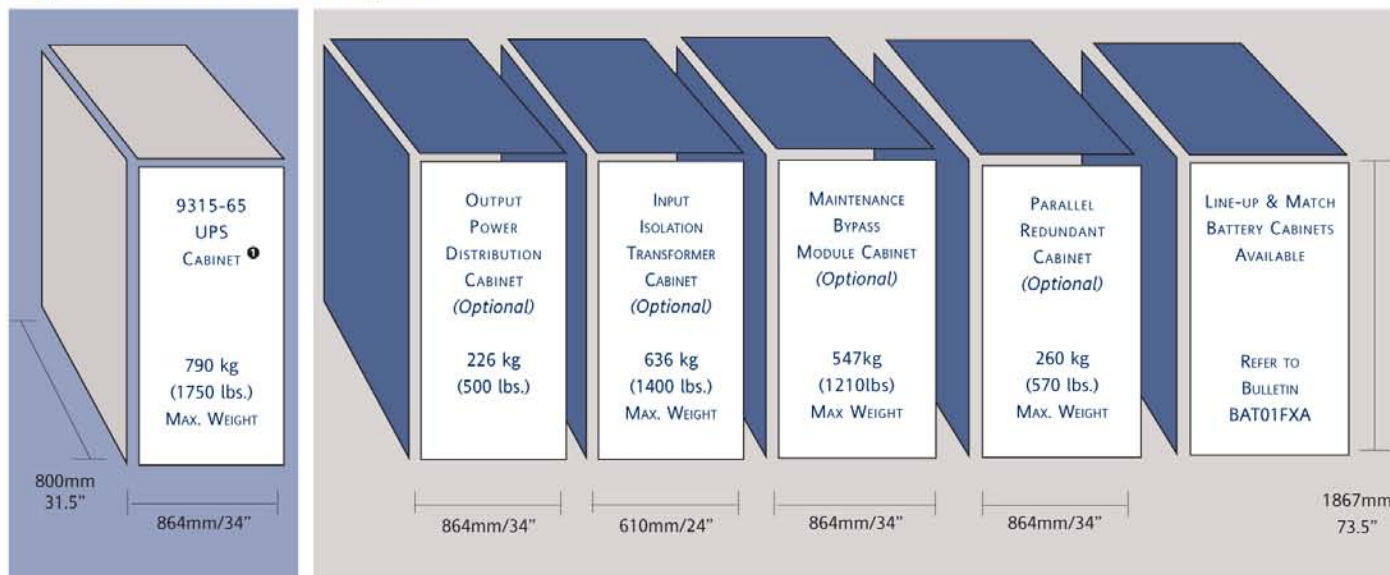
## Powerware 9315-65 Performance Characteristics

		Model 50		Model 65	
		50kVA/40kW	65kVA/52kW	50kVA/40kW	65kVA/52kW
Input voltage ❶	volts	400	400		
Output voltage ❶	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	64	84		
Maximum amps ❷	amps	80	105		
AC input (without input filter)					
Nominal amps	amps	76	100		
Maximum amps ❷	amps	95	124		
Bypass input					
Nominal amps	amps	74	97		
AC output					
Nominal amps	amps	74	97		
10 minutes max.	amps	93	121		
DC link					
Nominal DC voltage	volts	420	420		
Float voltage	volts	473	473		
End of discharge ❸	volts	351	351		
Maximum amps ❸	amps	113	146		
Physical attributes (w/o batt.)					
Installed weight	lbs	1750	1750		
Installed width	inches	34	34		
System efficiencies (typical)					
@ 100% load	%	92	92		
@ 75% load	%	91	92		
@ 50% load	%	90	91		
Full load heat dissipation					
BTU/hr. (x1000)		11.88	15.44		
KCal/hr. (x1000)		2.99	3.89		
Inverter efficiency (full load)	%	94	94		

- ❶ Easily adjustable for 380 or 415 VAC input/output, 50 or 60 Hz
- ❷ Maximum amps equals full load current plus battery recharge current.  
End of discharge based on 1.67 v/cell.
- ❸ Maximum amps based on 1.8 v/cell.



## Physical Dimensions and Weights



Shipping pallet and packaging adds 50 to 300 lbs. per shipping unit. Casters are standard for ease of installation.

- ❶ All accessories feature plug and play capability.

Due to continuing improvement programs specifications are subject to change without notice. Battery run times are approximate and may vary with equipment, configuration, battery age, temperature, etc. Powerware®, CELLWATCH, DC Expert, Foreseer, Hot Sync, LanSafe and PowerVision are trademark(s) of Powerware Corporation. © 2004 Powerware Corporation

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PLS07FXA  
Reprinted 03/04  
Revised 03/04

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