

Powerware® 9315-160

Features

- ▶ DC Expert™ battery management system
 - ▶ +/- 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
 - ▶ 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



Model 100 100kVA/80kW
Model 130 130kVA/104kW
Model 160 160kVA/128kW

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

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.

Specifications subject to change without notice.

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 65 dBA at 1 meter; in accordance with ISO 7779
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)

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%

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
*Note: Dual feed input not available for 208V or 220V input.
Specifications subject to change without notice.*

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.

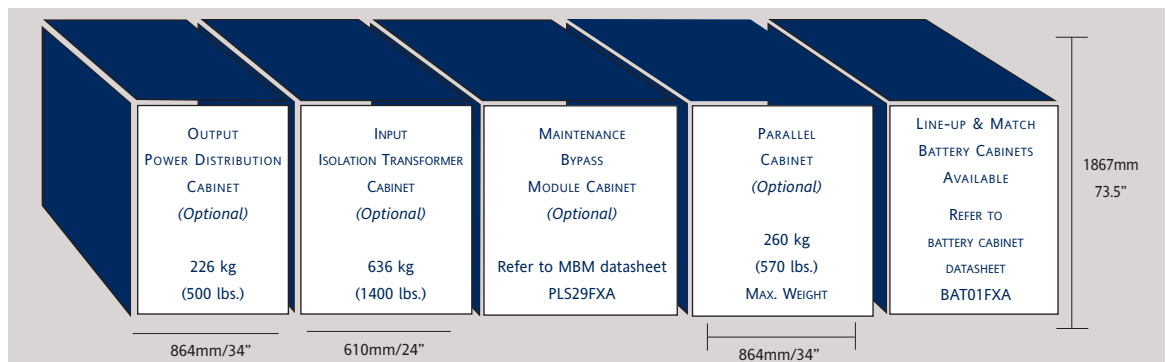
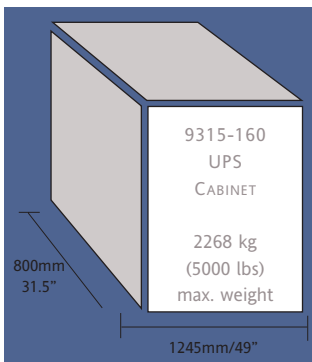
Powerware® 9315-160		Model 100 100kVA/80kW							Model 130 130kVA/104kW							Model 160 160kVA/128kW										
Input Voltage	Volts	480	480	208	220	600	600	400	480	480	208	220	600	600	400	480	480	208	220	600	600	400				
Output Voltage	Volts	208	480	208	208	600	208	400	208	480	208	208	600	208	400	208	480	208	208	600	208	400				
Input Voltage Range																										
Minimum	Volts	408	408	177	187	510	510	340	408	408	177	187	510	510	340	408	408	177	187	510	510	340				
Maximum	Volts	528	528	229	242	660	660	440	528	528	229	242	660	660	440	528	528	229	242	660	660	440				
Input / Output Frequency	Hz	60	60	60	60	60	60	50/60	60	60	60	60	60	60	50/60	60	60	60	60	60	60	50/60				
AC Input (With input filter) - Standard in U.S.																										
Nominal Amps	Amps	112	112	256	243	89	89	128	140	140	320	304	112	112	160	174	174	418	395	146	146	209				
Maximum Amps	Amps	139	139	320	303	111	111	160	174	174	400	379	139	139	200	200	200	480	454	167	167	240				
AC Input (Without input filter)																										
Nominal Amps	Amps	128	128	302	285	105	105	159	160	160	377	356	128	128	192	209	209	492	465	171	171	244				
Maximum Amps	Amps	160	160	377	356	131	131	198	200	200	471	445	160	160	240	240	240	565	534	196	196	280				
Bypass Input																										
Nominal Amps	Amps	120	120	278	262	96	96	146	156	156	361	341	125	125	188	192	192	444	420	154	154	231				
AC Output																										
Nominal Amps	Amps	278	120	278	278	96	278	146	361	156	361	361	125	361	188	444	192	444	444	154	444	231				
10 Minutes Max.	Amps	348	150	348	348	120	348	183	452	195	452	452	157	452	235	555	240	555	555	193	555	289				
DC Link																										
Nominal DC Voltage	Volts	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480				
Float Voltage	Volts	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540				
End of Discharge	Volts	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401	401				
Maximum Amps	Amps	200	200	200	200	200	200	200	260	260	260	260	260	260	260	320	320	320	320	320	320	320				
Physical Attributes (w/o batt.)																										
Installed Weight	Lbs	3150	3150	5000	5000	5000	5000	3975	3150	3150	5000	5000	5000	5000	3975	3150	3150	5000	5000	5000	5000	3975				
Installed Width	Inches	49	49	73	73	49	49	49	49	49	73	73	49	49	49	49	49	73	73	49	49	49				
System Efficiencies (Typical)																										
@ 100% Load	%	93	93	91	91	92	92	92	93	93	92	92	92	92	92	93	93	92	92	92	92	92				
@ 75% Load	%	92	92	91	90	92	92	92	93	93	91	91	92	92	92	93	93	92	92	92	92	92				
@ 50% Load	%	91	91	88	88	89	89	91	91	91	89	89	89	89	91	93	93	91	91	92	92	92				
Full Load Heat Dissipation																										
BTU/Hr. (x1000)		20.5	20.5	27.0	27.0	23.8	23.8	23.8	26.7	26.7	30.9	30.9	30.9	30.9	30.9	32.9	32.9	38.0	38.0	38.0	38.0	38.0				
KCal/Hr. (x1000)		5.18	5.18	6.81	6.81	5.99	5.99	5.99	6.74	6.74	7.78	7.78	7.78	7.78	7.78	8.29	8.29	9.58	9.58	9.58	9.58	9.58				
Inverter Efficiency (Full Load) %		94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94				

Easily adjustable for 380 or 415 VAC Input/Output, 50 or 60 Hz

End of Discharge based on 1.67 V/cell. Maximum Amps based on 1.8V/cell



Physical Dimensions and Weights



Specifications subject to change without notice.

All previously mentioned corporate names and brands are registered as trademarks by their respective companies.

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