



Powerware® 9315-300 Uninterruptible Power System

Product Focus

Model 225 225 kVA / 202 kW / 180 kW
Model 300 300 kVA / 270 kW / 240 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 2.5 ms
Frequency:	±0.005 Hz
Frequency sync range:	±0.5 Hz
Frequency slew rate:	1 Hz/second maximum
Output Power Factor Rating:	0.8 lagging to 0.9 leading without load derating

Environmental Specifications

Ambient temp:	0°C to +40°C
Storage:	-20°C to +70°C
Relative humidity:	Up to 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 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

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
---------------	--

This unit is also available in wireless, parallel, redundant and capacity configurations. See your Powerware Product Representative for more details.

Input Specifications

Voltage range:	(See chart on other side)
Frequency range:	(60 Hz) 57-63 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

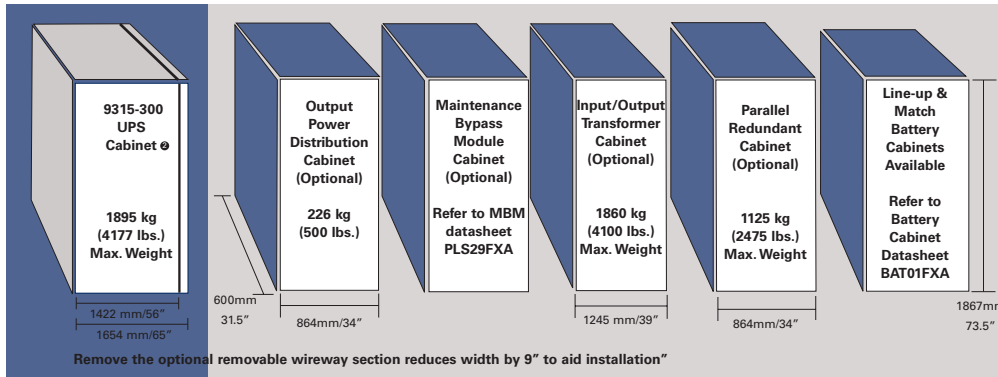
Software Compatibility:	PowerVision®, LanSafe™, FORESEER®
Communication Cards:	Connect UPS-X Web Card Modbus Card Single port serial Card Environmental Monitoring Probe (EMP)*

* Requires Connect UPS-X Web Card

POWERWARE 9315-300 PERFORMANCE CHARACTERISTICS

		Model 225						Model 300					
		225 kVA/ 180 kW	225 kVA/ 202 kW	225 kVA/ 180 kW	225 kVA/ 202 kW	225 kVA/ 180 kW	225 kVA/ 202 kW	300 kVA/ 240 kW	300 kVA/ 270 kW	300 kVA/ 240 kW	300 kVA/ 270 kW	300 kVA/ 240 kW	300 kVA/ 270 kW
Input voltage	volts	480	480 ^o	600	600 ^o	208	208 ^o	480	480 ^o	480	480 ^o	600	600 ^o
Output voltage	volts	480	480	600	600	208	208	208	208	480	480	600	600
Input voltage range													
Minimum	volts	408	408	510	510	177	177	408	408	408	408	510	510
Maximum	volts	528	528	660	660	229	229	528	528	528	528	660	660
Input/output frequency	Hz	60	60	60	60	60	60	60	60	60	60	60	60
AC input (with input filter)													
Nominal amps	amps	245	267	200	247	577	711	333	405	333	405	267	329
Maximum amps	amps	312	334	250	274	721	790	416	450	416	450	333	366
AC input (without input filter)													
Nominal amps	amps	288	356	236	291	640	792	384	476	384	476	314	389
Maximum amps	amps	360	396	294	323	800	880	480	529	480	529	392	432
Bypass input													
Nominal amps	amps	271	271	217	217	625	625	833	833	360	360	289	289
AC output													
Nominal amps	amps	271	271	217	217	625	625	833	833	360	360	289	289
10 minutes max.	amps	339	339	272	272	782	782	1040	1040	450	450	361	361
DC link													
Nominal DC voltage	volts	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
End of discharge	volts	401	401	401	401	401	401	401	401	401	401	401	401
Maximum amps @1.8v/cell	amps	450	505	450	505	450	505	600	675	600	675	600	675
Physical attributes (w/o batt.)													
Installed weight	lbs	4177	4177	4177	4177	12,377	12,377	8277	8277	4177	4177	4177	4177
Installed width	inches	65	65	65	65	163	163	114	114	65	65	65	65
System efficiencies (typical)													
@ 100% load	%	93	93	92	92	92	92	93	93	94	94	92	92
@ 75% load	%	93	92.8	92	91.6	92	91.5	92	91.6	94	93.7	92	91.5
@ 50% load	%	92	92.4	91	90.8	91	90.6	92	91.4	93	92.6	92	91.0
Full load heat dissipation													
BTU/hr. (x1000)		53.7	62.8	61.7	72.2	82.4	96.5	61.7	72.6	71.7	83.9	82.4	96.5
KCal/hr. (x1000)		13.5	15.8	15.5	18.2	20.8	24.3	15.6	18.4	18.1	21.1	20.8	24.3
Inverter efficiency (full load)	%	95	95	95	95	95	95	95	95	95	95	95	95

Physical Dimensions and Weights



- Optional .9 power factor
- All accessories feature plug and play capability.

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



**PowerChain
Management
Solutions**



UNITED STATES
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.800.356.5794
or 919.872.3020

www.powerware.com

CANADA
Ontario: 416.798.0112
Toll Free: 1.800.461.9166

LATIN AMERICA
Argentina: 54.11.4343.6323
Brazil: 55.11.3616.8500
México: 52.55.5488.5252

EUROPE/MIDDLE EAST/AFRICA
Denmark: 45.3686.7910
Finland: 358.94.52.661
France: 33.1.6012.7400
Germany: 49.7841.666.0
Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
Australia/NZ: 61.2.9693.9366
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.2649.9414 to 18
Singapore/SEA: 65.6825.1668

Powerware, X-Slot, and LanSafe are trade names, trademarks and/or service marks of Eaton Corporation or its subsidiaries and affiliates. All other trademarks are property of their respective owners.

© 2007 Eaton Corporation
All Rights Reserved
Printed in USA
PLS24FXA
March 2007



Powerware