

Eaton® 9315-500 UPS



Features:

- DC Expert battery management system featuring:
 - +/- 3 percent 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
- 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 $\pm 1\%$
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:	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
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
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This unit is also available in wireless, parallel, redundant and capacity configurations. See your Eaton product representative for more details.

Input Specifications

Voltage range:	(See chart on other side)
Frequency range:	(60 Hz) 57-63 Hz; (50Hz) 47-53 Hz
Surge protection:	Meets ANSI C62.41, Category A & B, EN 50091-2 and EN 50082-2
Power factor:	0.96 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

Communications

Software compatibility:	PowerVision, LanSafe, FORESEER
Communication cards:	ConnectUPS-X web card Modbus card Single port serial card Environmental monitoring probe*

* Requires ConnectUPS-X web card

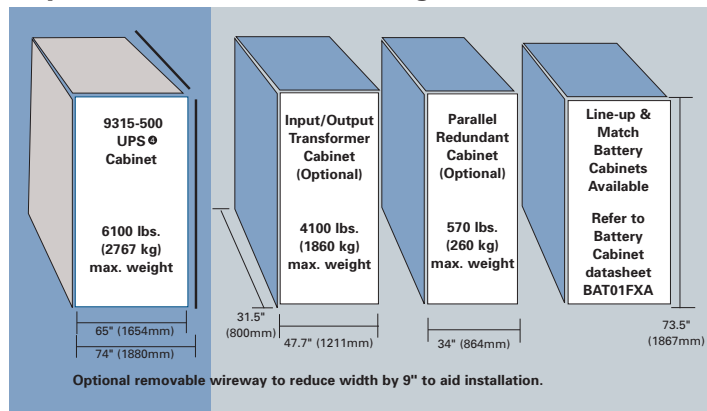


Powering Business Worldwide

Eaton 9315-500 Performance Characteristics

		Model 400								Model 500			
		400 kVA/ 320 kW	400 kVA/ 360 kW ^①	400 kVA/ 320 kW	400 kVA/ 360 kW ^①	400 kVA/ 320 kW	400 kVA/ 360 kW ^①	400 kVA/ 320 kW	400 kVA/ 360 kW	500 kVA/ 400 kW	500 kVA/ 450 kW ^①	500 kVA/ 400 kW	500 kVA/ 450 kW ^①
Input voltage	Volts	208	208	480	480	480	480	600	600	480	480	600	600
Output voltage	Volts	208	208	208	208	480	480	600	600	480	480	600	600
Input voltage range													
Minimum -15	Volts	177	177	408	408	408	408	510	510	408	408	510	510
Maximum +10	Volts	229	229	528	528	528	526	660	660	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	944	1077	410	468	410	468	510	576	528	605	422	484
Maximum amps ^②	Amps	1280	1440	560	626	560	626	510	576	640	720	512	576
AC input (without input filter)													
Nominal amps	Amps	1199	1346	521	585	521	585	638	658	648	729	518	583
Maximum amps ^②	Amps	N/A	N/A	640	715	640	715	638	658	800	850	640	658
Bypass input													
Nominal amps	Amps	1110	1110	1110	1110	480	480	385	385	601	601	480	480
AC output													
Nominal amps	Amps	1100	1100	1110	1110	480	480	385	385	601	601	480	480
10 minutes max.	Amps	1388	1388	1388	1388	600	600	423	423	750	750	600	600
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 ^③	Volts	401	401	401	401	401	401	401	401	401	401	401	401
Maximum amps ^④	Amps	800	901	800	901	800	901	800	901	1000	1120	1000	1120
Physical attributes (w/o batt.)													
Installed weight	Lbs	14300	14300	10200	10200	6100	6100	10100	10100	6100	6100	10100	10100
Installed width	Inches	170	170	122	122	74	74	124	124	74	74	124	124
System efficiencies (typical)													
@ 100% load	%	92	91.7	93	92.7	94	93.7	92.8	92.8	93.5	93	92.5	92
@ 75% load	%	91.5	91.5	92.5	92.4	93.5	93.3	92.3	92.3	93	92.6	92	91.5
@ 50% load	%	91	91	92	92	93	93	91.6	91.8	92	92	91	91
Full load heat dissipation^⑤													
BTU/Hr. (x1000)		119	133.9	107.6	119.7	95.6	107.9	122.9	138.3	119.5	134.9	122.9	138.3
KCal/Hr. (x1000)		30	33.7	27.1	30.2	24.1	27.2	31	34.9	30.1	34	31	34.9
Inverter efficiency (full load)	%	95	95	95	95	95	95	94.5	94.5	95	95	95	95

Physical dimensions and weights^⑥



- ① Optional 0.9 power factor
- ② Maximum amps equals full load current plus battery recharge current.
- ③ End on discharge based on 1.67 v/cell. Maximum amps based on 1.8 v/cell.
- ④ All accessories feature plug and play capability.
- ⑤ Refer to installation manual for actual system line-ups.
- ⑥ Heat rejection data is worst case to ensure cooling capacity (includes losses from filters and transformers).

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.



For more information, please visit
Eaton.com/powerquality