Eaton® 9315-225 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 ±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 85 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)

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

Communications

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

Safety

UL1778 Listed: cUL CAN/CSA C22.2
N0.107.1-M91 Listed EN 50091-1
All cabinets provide seismic mounting features
Selectable DC ground fault detection capability

* Requires ConnectUPS-X web card

This unit is also available in wireless, parallel, redundant and capacity configurations. See your Eaton product representative for more details.
## Eaton 9315-225 Performance Characteristics

### Input voltage

<table>
<thead>
<tr>
<th>225 kVA/225 kVA/225 kVA</th>
<th>225 kVA/225 kVA/225 kVA</th>
<th>225 kVA/225 kVA/225 kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage volts</td>
<td>208 208 480 480 480 480</td>
<td>208 208 480 480 480 480</td>
</tr>
<tr>
<td>Output voltage volts</td>
<td>208 208 480 480 480 480</td>
<td>208 208 480 480 480 480</td>
</tr>
</tbody>
</table>

### Input voltage range

<table>
<thead>
<tr>
<th>Minimum volts</th>
<th>Maximum volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>177</td>
<td>229</td>
</tr>
<tr>
<td>408</td>
<td>528</td>
</tr>
<tr>
<td>408</td>
<td>528</td>
</tr>
</tbody>
</table>

### Input/output frequency Hz

| 60 60 60 60 60 60 |

### AC input (with input filter)

<table>
<thead>
<tr>
<th>Nominal amps</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>577</td>
<td>721</td>
</tr>
<tr>
<td>245</td>
<td>312</td>
</tr>
<tr>
<td>267</td>
<td>334</td>
</tr>
</tbody>
</table>

### AC input (without input filter)

<table>
<thead>
<tr>
<th>Nominal amps</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>640</td>
<td>800</td>
</tr>
<tr>
<td>792</td>
<td>880</td>
</tr>
<tr>
<td>288</td>
<td>360</td>
</tr>
</tbody>
</table>

### AC output

<table>
<thead>
<tr>
<th>Nominal amps</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>625</td>
<td>625</td>
</tr>
<tr>
<td>625</td>
<td>625</td>
</tr>
<tr>
<td>271</td>
<td>271</td>
</tr>
</tbody>
</table>

### DC link

| Nominal DC voltage volts | 480 480 480 480 480 480 |
| Float voltage volts      | 540 540 540 540 540 540 |
| End of discharge volts   | 401 401 401 401 401 401 |
| Maximum amps @1.8v/cellamps | 450 450 450 450 450 450 |

### Physical attributes (w/o batt.)

<table>
<thead>
<tr>
<th>Installed weight kg.</th>
<th>Installed width inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>7963</td>
<td>113</td>
</tr>
<tr>
<td>3963</td>
<td>65</td>
</tr>
<tr>
<td>3863</td>
<td>65</td>
</tr>
<tr>
<td>3812</td>
<td>65</td>
</tr>
</tbody>
</table>

### System efficiencies (typical)

| @ 100% load %        | 92 92 93 93 94 94 |
| @ 75% load %         | 92 91.6 92 91.8 94 93.6 |
| @ 50% load %         | 91 91.4 92 91.5 93 92.4 |

### Full load heat dissipation

| BTU/hr. (x1000)      | 53.7 62.8 46.2 54.3 39.2 46.1 |
| KCal/hr. (x1000)     | 13.5 15.8 11.7 13.8 9.9 11.6 |
| Inverter efficiency (full load)% | 95 95 95 95 95 95 |

### Other details

- 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.

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**Physical dimensions and weights**

- **Eaton 9315-225 UPS Cabinet**
  - Installed weight: 3863 lbs. (1752 kg)
  - Installed width: 65 inches (1654 mm)

- **Output Power Distribution Cabinet (Optional)**
  - Installed weight: 500 lbs. (226 kg)
  - Installed width: 34” (864 mm)

- **Input Isolation Transformer Cabinet (Optional)**
  - Installed weight: 2500 lbs. (1134 kg)
  - Installed width: 34” (864 mm) or 49” (1244 mm)

- **Maintenance Bypass Module Cabinet (Optional)**
  - Installed weight: 570 lbs. (260 kg)
  - Installed width: 34” (864 mm)

- **Parallel Redundant Cabinet (Optional)**
  - Installed weight: 720 lbs. (326 kg)
  - Installed width: 34” (864 mm)

- **Line-up & Match Battery Cabinets Available**
  - Installed weight: 3863 lbs. (1752 kg)
  - Installed width: 49” (1244 mm)

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**For more information, please visit Eaton.com/powerquality**

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