

## Chapter 10

## Product Specifications

### 10.1 Model Numbers

The UPS is housed in a free-standing cabinet with safety shields behind the door and front panels. The UPS is available in 50 or 60 Hz with various output power ratings.

Models	Power Rating	Frequency
Power Xpert 9395-550/225	225 kVA	50/60 Hz
Power Xpert 9395-550/275	275 kVA	50/60 Hz
Power Xpert 9395-550/450	450 kVA	50/60 Hz
Power Xpert 9395-550/500	500 kVA	50/60 Hz
<b>Power Xpert 9395-550/550</b>	<b>550 kVA</b>	<b>50/60 Hz</b>

### 10.2 Specifications

The following sections detail the input, output, battery, and environmental specifications for the UPS.

#### 10.2.1 UPS Input

<b>Operating Input Voltage</b>	400 Vac <b>480 Vac</b>
<b>Operating Input Frequency Range</b>	50 or <b>60</b> Hz
<b>Operating Input Current</b>	See Table 3-4 through Table 3-8.  Reduced for Generator Adjustable
<b>Input Current Harmonic Content</b>	5% THD at full load
<b>Power Factor</b>	Minimum 0.99
<b>Line Surges</b>	6 kV OC, 3 kA SC per ANSI 62.41 and IEC 801-4
<b>Battery Voltage</b>	480 Vdc
<b>Battery Charging Capacity</b>	Configurable per UPM at nominal line voltage: Up to 120A with less than 85% load Up to 80A with 100% load
<b>Battery Shunt Trip</b>	48 Vdc

### 10.2.2 UPS Output

<b>UPS Output Capacity</b>	100% rated current
<b>Output Voltage Regulation</b>	± 1% (10% to 100% load)
<b>Output Voltage Adjustment (Nominal +/-3%)</b>	400 Vac nominal, adjustable from 388 Vac to 412 Vac 480 Vac nominal, adjustable from 466 Vac to 494 Vac
<b>Output Voltage Harmonic Content</b>	1.5% maximum THD (linear load) 5% maximum THD (nonlinear load)
<b>Output Current</b>	See Table 3-4 through Table 3-7.
<b>Output Voltage Balance</b>	3% for 100% maximum load imbalance (linear load)
<b>Output Voltage Phase Displacement</b>	3° for 100% maximum load imbalance (linear load)
<b>Output Transients</b>	± 5% (10% to 100% load)
<b>Frequency Regulation</b>	± 0.1 Hz free running
<b>Synchronous to Bypass</b>	+10% to -10% ± 3%
<b>Frequency Slew Rate</b>	1 Hz per second maximum
<b>Load Compatibility</b>	0.9 pF Leading 0.8 pF Lagging
<b>Overload Capability</b>	110% for 10 minutes 125% for 30 seconds 150% for 10 seconds

NOTE The 110% overload capability in the above table is based on the kVA label rating of the UPS.  
The 125% and 150% overloads are based on the non-derated hardware capability of the UPS.

### 10.2.3 UPS Environmental

<b>Operating Temperature</b>	0 to 40°C (32 to 104°F) without derating. The recommended operating temperature is 25°C (77°F).
<b>Operating Altitude</b>	Maximum 1500m (5000 ft) at 40°C without derating
<b>Storage Temperature</b>	-25 to +60°C, excluding batteries (prolonged storage above 40°C causes rapid battery self-discharge)
<b>Relative Humidity (Operating and Storage)</b>	5% to 95% maximum noncondensing
<b>Acoustical Noise</b>	76 dB at a 1m distance, A weighted
<b>EMI Suppression</b>	Meets FCC Regulation 47, Part 15, for class A devices
<b>Electrostatic Discharge (ESD) Immunity</b>	Meets IEC 801-2 specifications. Withstands up to 25 kV pulse without damage and with no disturbance or adverse effect to the critical load.