Industrial 120VDC
10 to 60KVA UPS

Professional Series (ProUPS)
Uninterruptible Power Supply

- True On-line Technology for Maximum Power Protection
- Input Power Factor Correction Reduces Power Consumption Conserving Energy
- Input THD Less Than 10%
- True Double Conversion Design for Total Load Isolation and Protection
- Full Load Rated No Break Dual Solid-State Static Switch
- Reliable and Robust Design Providing a 20-year Design Life
- Full Input/Output Isolation, Copper Wound Transformers
- LCD Monitoring Panel with Power Flow Diagram
- Dual Input for Optimal Load Protection
- Ethernet RJ45 Communications Port
- Form “C” Interface Contacts
- Generator Compatible Rectifier Input
- Built to Meet UL1778, NEMA, NEC, ANSI and FCC requirements

10-15KVA Model
## Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>10kVA</th>
<th>15kVA</th>
<th>20kVA</th>
<th>25kVA</th>
<th>30kVA</th>
<th>40kVA</th>
<th>50kVA</th>
<th>60kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage² (3 Ph)</td>
<td>208</td>
<td>480</td>
<td>208</td>
<td>480</td>
<td>208</td>
<td>480</td>
<td>208</td>
<td>480</td>
</tr>
<tr>
<td>Nom. Current (Amps)</td>
<td>31.1</td>
<td>13.5</td>
<td>46.7</td>
<td>20.2</td>
<td>62.3</td>
<td>27</td>
<td>77.8</td>
<td>33.7</td>
</tr>
<tr>
<td>Max Current (Amps)</td>
<td>33.3</td>
<td>14.4</td>
<td>50</td>
<td>21.6</td>
<td>66.7</td>
<td>28.9</td>
<td>83.4</td>
<td>36.1</td>
</tr>
</tbody>
</table>

### Input Distortion

<10% Total Harmonic Distortion @ full load

### Input Power Factor

Typically 1.0 P.F. @ full load

### Input Frequency¹

50/60Hz ± 6%

### AC Output Three-Phase

<table>
<thead>
<tr>
<th>Output Voltage VAC²</th>
<th>208</th>
<th>480</th>
<th>208</th>
<th>480</th>
<th>208</th>
<th>480</th>
<th>208</th>
<th>480</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency¹ (Hz)</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Full Load (Amps)</td>
<td>28.7</td>
<td>12.0</td>
<td>41.7</td>
<td>18.1</td>
<td>62.3</td>
<td>27</td>
<td>83.4</td>
<td>33.7</td>
</tr>
</tbody>
</table>

### AC Output Single-Phase

<table>
<thead>
<tr>
<th>Output Voltage² VAC</th>
<th>120</th>
<th>240</th>
<th>120</th>
<th>240</th>
<th>120</th>
<th>240</th>
<th>120</th>
<th>240</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency¹ (Hz)</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Full Load (Amps)</td>
<td>83.4</td>
<td>41.7</td>
<td>126</td>
<td>61</td>
<td>166</td>
<td>77</td>
<td>208</td>
<td>104</td>
</tr>
</tbody>
</table>

### DC Link

<table>
<thead>
<tr>
<th>Nominal DC Voltage²</th>
<th>120</th>
<th>120</th>
<th>120</th>
<th>120</th>
<th>120</th>
<th>120</th>
<th>120</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Watts (Full Load)</td>
<td>9,600</td>
<td>14,400</td>
<td>19,200</td>
<td>24,000</td>
<td>28,800</td>
<td>38,400</td>
<td>48,000</td>
<td>57,600</td>
</tr>
<tr>
<td>DC Amps (Full Load)</td>
<td>80</td>
<td>120</td>
<td>160</td>
<td>200</td>
<td>240</td>
<td>320</td>
<td>400</td>
<td>480</td>
</tr>
<tr>
<td>Max DC Amps</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
<td>400</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>End of Discharge</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
<td>105VDC</td>
</tr>
<tr>
<td>Number of Cells</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>VDC Flt/Eq. Range</td>
<td>105 to 150</td>
<td>105 to 150</td>
<td>105 to 150</td>
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</tr>
</tbody>
</table>

### Efficiency

| DC to AC (%) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| BTU/hr. | 5,459 | 8,189 | 10,918 | 13,648 | 16,378 | 21,837 | 27,296 | 32,755 |

### Mechanical

| Size W x D x H (in) | 31.5x30x65 | 31.5x30x65 | 63x30x65 | 63x30x65 | 63x30x65 | 63x30x65 | 81x30x65 | 81x30x65 |
| Weight (lbs) | 1,280 | 1,350 | 1,560 | 1,750 | 2,010 | 2,700 | 3,020 | 3,380 |

## Input

- **Voltage:** 3 Phase, 3-wire plus ground
- **Range:** +10%, -20%
- **Regulation:** ±1% from 0 to 100% load
- **Power Factor:** .99 P.F. at full rated load
- **Walk-In:** 10 seconds to full load
- **Input THD:** Typically less than 10%
- **Frequency:** 50Hz or 60Hz ±6%
- **Surge Protection:** ANSI C62.41

## Output

- **Voltage:** 3 Phase, 3 or 4-wire plus ground
- **Regulation:** ±2% from 0 to 100% load
- **Output THD:** <3% linear, <5% nonlinear load
- **Overload:** 120% for 15 min, 150% for 1 min
- **Slew Rate:** 1Hz per second (adjustable)
- **Frequency:** ± 0.01% free running

## Environmental

- **Ambient Temperature:** 0°C to 40°C
- **Relative Humidity:** Up to 95% non-condensing
- **Acoustical Noise:** 65dB ‘A’ scale @ 1 meter
- **Altitude:** 5,000 Ft without de-rating
- **Storage Temperature:** -20°C to 70°C

## General Information

- **Cable Entry:** Top or Bottom
- **Ventilation:** Forced Air N+1
- **Paint:** Light Gray
- **Cabinet:** Seismic Zone 4 Rated

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1. Specifications shown reflect standard 60Hz UPS models. Models of 50Hz, 400Hz, or other frequencies available
2. Other input/output/DC link voltage configurations are available by contacting the factory.
3. All models are available as stand alone DC to AC inverters and frequency converters.
4. All data is subject to change without notice.

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[www.ltipowersystems.com](http://www.ltipowersystems.com)

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