## TECHNICAL SPECIFICATIONS

### AC INPUT

<table>
<thead>
<tr>
<th>Voltage</th>
<th>150kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>300kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Volts (3PH)</td>
<td>208</td>
<td>480</td>
<td>N/A</td>
<td>480</td>
</tr>
<tr>
<td>Normal Current (Amps)</td>
<td>466.9</td>
<td>302.3</td>
<td>N/A</td>
<td>209.7</td>
</tr>
<tr>
<td>Max Current (Amps)</td>
<td>500.2</td>
<td>216.7</td>
<td>N/A</td>
<td>289.53</td>
</tr>
<tr>
<td>Input Distortion</td>
<td>≤ 10% Total Harmonic Distortion at full rated load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Power Factor</td>
<td>Typically 0.9 @ full load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Frequency</td>
<td>50/60Hz ± 0.5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### AC OUTPUT

<table>
<thead>
<tr>
<th>Voltage</th>
<th>150kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>300kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Volts (VAC)</td>
<td>208</td>
<td>480</td>
<td>N/A</td>
<td>480</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>Full load (Amps)</td>
<td>416.9</td>
<td>190.6</td>
<td>N/A</td>
<td>240.8</td>
</tr>
<tr>
<td>D.C. Link</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VDC (Nominal)</td>
<td>360</td>
<td>480</td>
<td>480</td>
<td>480</td>
</tr>
<tr>
<td>DC Watts (Full Load)</td>
<td>132,000</td>
<td>176,000</td>
<td>228,000</td>
<td>264,000</td>
</tr>
<tr>
<td>DC Amps (Full Load)</td>
<td>325.9</td>
<td>325.9</td>
<td>407.4</td>
<td>466.9</td>
</tr>
<tr>
<td>D.C./Amps (Amps)</td>
<td>419</td>
<td>419</td>
<td>573.8</td>
<td>626.6</td>
</tr>
<tr>
<td>End Of Discharge</td>
<td>35VDC</td>
<td>420VDC</td>
<td>420VDC</td>
<td>420VDC</td>
</tr>
<tr>
<td>Number of Cells</td>
<td>180</td>
<td>240</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>D.C./P.E. Range</td>
<td>400 to 430</td>
<td>530 to 600</td>
<td>530 to 600</td>
<td>530 to 600</td>
</tr>
</tbody>
</table>

### EFFICIENCY

<table>
<thead>
<tr>
<th>Voltage</th>
<th>150kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>300kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC to AC (%)</td>
<td>88</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>DC to AC (%)</td>
<td>92</td>
<td>92</td>
<td>92</td>
<td>92</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Voltage</th>
<th>150kVA</th>
<th>200kVA</th>
<th>250kVA</th>
<th>300kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (W x D x H)</td>
<td>18 x 30 x 65</td>
<td>18 x 30 x 65</td>
<td>18 x 30 x 65</td>
<td>18 x 30 x 65</td>
</tr>
<tr>
<td>Weight (lbs.)</td>
<td>2,950</td>
<td>3,025</td>
<td>4,550</td>
<td>4,560</td>
</tr>
</tbody>
</table>

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**ProUPS 10 to 300KVA UPS**

**Professional Series**

Uninterruptible Power Supply (ProUPS)

- 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
- Highest Quality Components All Copper Wound Transformers
- LCD Monitoring Panel with Power Flow Diagram
- Dual Input for Optimum Load Protection
- RS232 Communications Port
- Form “C” Interface Contacts
- Internal Manual Bypass Switch
- Shutdown Software Compatible
- Generator Compatible Rectifier Input
- Built to Meet Stringent UL1778, NEMA, NEC, ANSI, and FCC Requirements

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**LTI Power Systems**

LTI Power Systems is a ISO9001-2000 listed manufacturer

LTI Power Systems • 10800 Middle Ave., Bldg. B • Elyria, OH 44035

Phone (440) 327-5050 • FAX (440) 458-8140 • www.lorainetechnology.com
TECHNICAL SPECIFICATIONS

INPUT
Voltage: 3 phase, 5 wire plus ground Voltage: 3 Phase, 3 or 4 wire plus ground
Range: +10%, -20% Regulation: +/-2% from 0 to 100% load
Regulation: +/-1% from 0 to 100% load Unbalanced: +/-3% for 100% unbalanced load
Power Factor: .99 P.F. at full rated load Output THD: < 3% linear, < 5% nonlinear load
Walk-in: 10 seconds to full load Overload: 120% for 15 minutes, 150% for 1 minute, bypass 1000% for 1 second
Input THD: Typically Less Than 10%
Frequency: 50Hz or 60Hz +/-0.5% Slew Rate: 1Hz per second (adjustable)
Surge Protection: ANSI C62.41 Frequency: +/-0.01% free running

OUTPUT

AC INPUT
10kva 15kva 20kva 25kva 30kva 40kva
Input Voltages (VPH)
208 480 208 480 208 480 208 480 208 480 208 480
Normalized Current Amps
31.3 13.5 46.7 20.2 62.3 27.0 77.8 33.7 90.4 40.5 124.5 53.9
Max Current (Amps)
33.3 14.4 50.0 21.6 66.7 28.9 83.4 36.1 100 43.3 134.4 57.8
Input Distortion
<10% Total Harmonic Distortion at full rated load
Input Power Factor
Typically 1.0 P.F. at full load
Input Frequency
50/60Hz +/- 0%

AC OUTPUT
10kva 15kva 20kva 25kva 30kva 40kva
Output Voltage (VAC)
208 480 208 480 208 480 208 480 208 480 208 480
Frequency (Hz)
60Hz 60Hz 60Hz 60Hz 60Hz 60Hz
Full Load (Amps)
28.7 12.0 41.7 18.1 55.6 24.1 69.5 30.1 81.4 36.1 111.2 48.2
DC LINK
10kva 15kva 20kva 25kva 30kva 40kva
VDC Nominal
360 360 360 360 360 360
DC Watts (Full Load)
8,800 13,200 17,600 22,000 26,400 35,200
Max DC Amps (Full Load)
21.7 32.6 43.7 54.3 65.2 86.7
Max DC Amps
27.9 41.9 55.9 69.8 83.8 111.7
End Of Discharge
315VDC 315VDC 315VDC 315VDC 315VDC 315VDC
Number of Cells
180 180 180 180 180 180
VDC Fk/Eq. Range
400 to 430 400 to 430 400 to 430 400 to 430 400 to 430 400 to 430

EFFICIENCY
10kva 15kva 20kva 25kva 30kva 40kva
AC to AC (%) 88 88 88 88 88 88
DC to AC (%) 92 92 92 92 92 92
BYU/AL 3,275 4,913 6,551 8,188 9,826 13,102

MECHANICAL
10kva 15kva 20kva 25kva 30kva 40kva
Size W x D x H
31.5 x 29.5 x 65 31.5 x 29.5 x 65 31.5 x 29.5 x 65 31.5 x 29.5 x 65 31.5 x 29.5 x 65 31.5 x 29.5 x 65
Weight (lbs.)
860 950 1,058 1,058 1,130 1,220

ENVIRONMENTAL
Ambient Temperature: 0°C to 40°C Cable Entry: Top or Bottom
Relative Humidity: Up to 95% noncondensing Ventilation: Forced Air N+1
Acoustical Noise: 65dB / A scale at 1 meter Paint: Light Gray
Altitude: 5,000 ft. without derating Cabinet: Seismic Zone 4 Rated
Storage Temperature: -20°C to 70°C

GENERAL INFORMATION
Input Voltages (VAC)
208 480 208 480 208 480 208 480 208 480 208 480
Frequency (Hz)
60Hz 60Hz 60Hz 60Hz 60Hz 60Hz
Full Load (Amps)
139 60.2 106.8 72.3 222.3 96.3 277.9 1314 333.5 144.5

DC LINK
50kva 60kva 80kva 100kva 120kva
DC Nominal
300 300 300 300 300
DC Watts (Full Load)
44,000 52,800 70,400 88,000 105,300
DC Amps (Full Load)
108.6 130.4 173.8 217.3 267.7
Max DC Amps
139.7 167.6 223.5 294.9 352.5
End Of Discharge
315VDC 315VDC 315VDC 315VDC 315VDC
Number of Cells
180 180 180 180 180
VCR/Charge Range
400 to 430 400 to 430 400 to 430 400 to 430 400 to 430

HCR/Discharge
30kva 40kva 60kva 80kva 100kva 120kva
A C/O (%)
88 88 88 88 88
A C/O (%)
92 92 92 92 92
BYU/AL
16,178 19,653 26,204 32,755 39,306

MECHANICAL
50kva 60kva 80kva 100kva 120kva
Size W x D x H
40.5 x 23.5 x 65 40.5 x 23.5 x 65 40.5 x 23.5 x 65 40.5 x 23.5 x 65 40.5 x 23.5 x 65
Weight (lbs.)
1,720 1,940 1,980 2,300 2,425

Note: 1. Specifications shown reflect standard 60Hz UPS models. Models of 50Hz, 400Hz, and single phase or other input and output voltage configurations are available by contacting the factory.
2. All models are available as stand alone DC to AC inverters and frequency converters.
3. Input or output voltages below 480VAC will increase the width of the cabinet by 18 inches on models from 100kva to 150kva.
4. The rectifier input isolation transformer option will increase the width 18 inches on all models from 25kva to 100kva and 31.5 inches on all models 120kva and above.
5. All data is subject to change without notice.