SmartPro 120V 2.2kVA 1.6kW Line-Interactive Sine Wave UPS, Tower, Network Card Options, USB, DB9

MODEL NUMBER: SMART2200SLT

Description
2200VA line-interactive tower UPS system for server, networking and telecommunications equipment. Upright tower form factor. Offers sine wave 120V nominal output in both AC and battery modes. Switches to battery-derived AC output during power failures and extreme voltage variations. Line-interactive automatic voltage regulation (AVR) provides voltage boost/cut during brownouts/overvoltages to maintain regulated 120V nominal output over an input voltage range of 83-145V. Includes NEMA 5-20P input plug and 7 UPS-supported (6 x 5-15/20R & 1 L5-20R) output receptacles. Network-grade AC surge and noise suppression. Network management interfaces support simultaneous communications via USB port, DB9 serial port and slot for Network Management Card option. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all three network interfaces. PowerAlert UPS management software is available via free download. Three-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation, and battery warning LEDs. Audible alarm. Self-test. Field-replaceable, hot-swappable internal batteries. Attractive all-black color scheme.

Features
- SmartPro line-interactive UPS system is ideal for voice, data, medical and industrial networking applications
- Line-interactive voltage regulation maintains selectable 120V nominal output during brownouts as low as 83V and overvoltages to 145V
- Enables continuous operation through blackouts, voltage fluctuations and surges
- Line-interactive automatic voltage regulation (AVR) provides 12% and 24% voltage boost during brownouts and a 12% voltage cut during overvoltages

Highlights
- 2.2kVA / 2200VA line interactive tower UPS; Sine wave output
- 120V nominal output during brownouts to 83 and overvoltages to 145V
- USB, RS232, EPO and slot for Network Management Card options
- Front panel status LEDs with detailed load and battery capacity display
- NEMA 5-20P input; 6 NEMA 5-15/20R & 1 L5-20R outlets

Package Includes
- SMART2200SLT UPS System
- USB and DB9 cables
- Owner's manual
Specifications

- Standard internal battery set offers 13 min. runtime at half load (800W) and 5 min. at full load (1600W)
- Intelligent battery management system extends battery life
- Space-saving upright tower format
- Network interfaces support simultaneous communications via built-in USB port, DB9 serial port and slot for Network Management Card option; Compatible with Tripp Lite UPS management card options WEBCARDLX, SNMPWEBCARD and RELAYIOCARD
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, timed inverter shutoff, activate self-test and output power control
- NEMA 5-20P input plug/6 x NEMA 5-15R and 1 x NEMA L5-20R output receptacles
- Front panel LEDs provide current monitoring, voltage regulation, battery charge level, and battery warning information
- UPS ships fully assembled in full compliance with DOT regulations; no time-consuming connection of internal batteries by user required

<table>
<thead>
<tr>
<th>OVERVIEW</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC Code</td>
<td>037332125774</td>
</tr>
<tr>
<td>UPS Type</td>
<td>Line-Interactive</td>
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<table>
<thead>
<tr>
<th>INPUT</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Rated input current (Maximum Load)</td>
<td>14.8A</td>
</tr>
<tr>
<td>Nominal Input Voltage(s) Supported</td>
<td>120V AC</td>
</tr>
<tr>
<td>UPS Input Connection Type</td>
<td>5-20P</td>
</tr>
<tr>
<td>Input Circuit Breakers</td>
<td>20A</td>
</tr>
<tr>
<td>UPS Input Cord Length (ft.)</td>
<td>10</td>
</tr>
<tr>
<td>UPS Input Cord Length (m)</td>
<td>3.1</td>
</tr>
<tr>
<td>Recommended Electrical Service</td>
<td>20A 120V</td>
</tr>
<tr>
<td>Input Phase</td>
<td>Single-Phase</td>
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<table>
<thead>
<tr>
<th>OUTPUT</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Output Volt Amp Capacity (VA)</td>
<td>2200</td>
</tr>
<tr>
<td>Specification</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Output kVA Capacity (kVA)</td>
<td>2.2</td>
</tr>
<tr>
<td>Output Watt Capacity (Watts)</td>
<td>1600</td>
</tr>
<tr>
<td>Output kW Capacity (kW)</td>
<td>1.6</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.7</td>
</tr>
<tr>
<td>Nominal Voltage Details</td>
<td>120v nominal output in battery mode</td>
</tr>
<tr>
<td>Frequency Compatibility</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Output Voltage Regulation (Line Mode)</td>
<td>-18% / +8%</td>
</tr>
<tr>
<td>Output Voltage Regulation (Battery Mode)</td>
<td>+/- 5%</td>
</tr>
<tr>
<td>Output AC Waveform (AC Mode)</td>
<td>Sine wave</td>
</tr>
<tr>
<td>Output AC Waveform (Battery Mode)</td>
<td>Pure Sine wave</td>
</tr>
<tr>
<td>Nominal Output Voltage(s) Supported</td>
<td>110V; 115V; 120V</td>
</tr>
<tr>
<td>Output Receptacles</td>
<td>(6) 5-15/20R; (1) L5-20R</td>
</tr>
<tr>
<td>Individually Controllable Load Banks</td>
<td>No</td>
</tr>
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</table>

**BATTERY**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Load Runtime (min.)</td>
<td>5 min. (1600w)</td>
</tr>
<tr>
<td>Half Load Runtime (min.)</td>
<td>13 min. (800w)</td>
</tr>
<tr>
<td>DC System Voltage (VDC)</td>
<td>48</td>
</tr>
<tr>
<td>Battery Recharge Rate (Included Batteries)</td>
<td>Less than 4.5 hours from 10% to 90% (typical, full load discharge)</td>
</tr>
<tr>
<td>Internal UPS Replacement Battery Cartridge</td>
<td> &lt;a class=&quot;productLink&quot; href=&quot;/www.triplite.com/UPS-Replacement-Battery-Cartridge-Kit-select-Tripp-Lite-Best-Powerware-Liebert-other-UPS-RBC54&quot;&gt;RBC54&lt;/a&gt; </td>
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<tr>
<td>Battery Access</td>
<td>Battery access door</td>
</tr>
<tr>
<td>Battery Replacement Description</td>
<td>Hot-swappable, user replaceable batteries</td>
</tr>
<tr>
<td>Expandable Runtime</td>
<td>No</td>
</tr>
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**VOLTAGE REGULATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage Regulation Description</td>
<td>Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83V to overvoltages to 145V</td>
</tr>
<tr>
<td>Overvoltage Correction</td>
<td>Input voltages between 127 and 145 are reduced by 12%; Voltage setpoints subject to ±5% tolerance</td>
</tr>
<tr>
<td>Undervoltage Correction</td>
<td>Input voltages between 96 and 108V are boosted by 12%; Voltage setpoints subject to ±5% tolerance</td>
</tr>
<tr>
<td>Severe Undervoltage Correction</td>
<td>Input voltages between 83 and 95V are boosted by 24%; Voltage setpoints subject to ±5% tolerance</td>
</tr>
</tbody>
</table>

**USER INTERFACE, ALERTS & CONTROLS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switches</td>
<td>2 Switches control off/on power status and alarm-cancel/self-test operation</td>
</tr>
<tr>
<td>Alarm Cancel Operation</td>
<td>Power-fail alarm can be silenced using alarm-cancel switch</td>
</tr>
<tr>
<td>Feature</td>
<td>Specification</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Audible Alarm</td>
<td>Audible alarm indicates power failure and overload conditions</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>9 LEDs indicate line power, battery power, AVR, overload and replace battery status - with a 3-LED level meter for load and battery charge level</td>
</tr>
<tr>
<td><strong>SURGE / NOISE SUPPRESSION</strong></td>
<td></td>
</tr>
<tr>
<td>UPS AC Suppression Joule Rating</td>
<td>570</td>
</tr>
<tr>
<td>UPS AC Suppression Response Time</td>
<td>Instantaneous</td>
</tr>
<tr>
<td>EMI / RFI AC Noise Suppression</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>PHYSICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Cooling Method</td>
<td>Fan</td>
</tr>
<tr>
<td>Installation Form Factors Supported with Included Accessories</td>
<td>Tower</td>
</tr>
<tr>
<td>Primary Form Factor</td>
<td>Tower</td>
</tr>
<tr>
<td>Primary UPS Depth (mm)</td>
<td>318</td>
</tr>
<tr>
<td>Primary UPS Height (mm)</td>
<td>267</td>
</tr>
<tr>
<td>Primary UPS Width (mm)</td>
<td>226</td>
</tr>
<tr>
<td>Shipping Dimensions (hwd / cm)</td>
<td>39.12 x 36.32 x 43.69</td>
</tr>
<tr>
<td>Shipping Dimensions (hwd / in.)</td>
<td>15.40 x 14.30 x 17.20</td>
</tr>
<tr>
<td>Shipping Weight (kg)</td>
<td>31.34</td>
</tr>
<tr>
<td>Shipping Weight (lbs.)</td>
<td>69.10</td>
</tr>
<tr>
<td>UPS Housing Material</td>
<td>Steel</td>
</tr>
<tr>
<td>UPS Power Module Dimensions (hwd, cm)</td>
<td>26.67 x 22.61 x 31.75</td>
</tr>
<tr>
<td>UPS Power Module Dimensions (hwd, in.)</td>
<td>10.5 x 8.9 x 12.5</td>
</tr>
<tr>
<td>UPS Power Module Weight (kg)</td>
<td>25.85</td>
</tr>
<tr>
<td>UPS Power Module Weight (lbs.)</td>
<td>57</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>0 to 95%, non-condensing</td>
</tr>
<tr>
<td>AC Mode BTU / Hr. (Full Load)</td>
<td>287</td>
</tr>
<tr>
<td>Battery Mode BTU / Hr. (Full Load)</td>
<td>889</td>
</tr>
<tr>
<td>AC Mode Efficiency Rating (100% Load)</td>
<td>95%</td>
</tr>
<tr>
<td>Audible Noise</td>
<td>Audible Noise &lt; 50 dBA at Front Side 1 Meter</td>
</tr>
</tbody>
</table>
## COMMUNICATIONS

<table>
<thead>
<tr>
<th>Network Management Cards</th>
<th>&lt;a class=&quot;productLink&quot; href=&quot;/www.tripplite.com/SmartPro-SmartOnline-UPS-Systems<del>SNMPWEBCARD&quot;&gt;SNMPWEBCARD&lt;/a&gt;&lt;/)&amp;nbsp;&lt;a class=&quot;productLink&quot; href=&quot;/www.tripplite.com/Web-Management-Accessory-Card</del>WEBCARDLX&quot;&gt;WEBCARDLX&lt;/a&gt;&lt;/&amp;nbsp;&lt;a class=&quot;productLink&quot; href=&quot;/www.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD&quot;&gt;RELAYIOCARD&lt;/a&gt;&lt;/&amp;nbsp;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Monitoring Port Description</td>
<td>Supports detailed monitoring of UPS and site power conditions</td>
</tr>
<tr>
<td>PowerAlert Software</td>
<td>For local monitoring via the UPS’s built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a></td>
</tr>
<tr>
<td>Communications Cable</td>
<td>USB and DB9 cabling included</td>
</tr>
<tr>
<td>WatchDog Compatibility</td>
<td>Supports Watchdog application, OS and hard-reboot restart options for remote applications</td>
</tr>
<tr>
<td>Communications Interface</td>
<td>DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)</td>
</tr>
</tbody>
</table>

## LINE / BATTERY TRANSFER

<table>
<thead>
<tr>
<th>Transfer Time</th>
<th>2-4 milliseconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Voltage Transfer to Battery Power (Setpoint)</td>
<td>83V (±5% tolerance)</td>
</tr>
<tr>
<td>High Voltage Transfer to Battery Power (Setpoint)</td>
<td>145V (±5% tolerance)</td>
</tr>
</tbody>
</table>

## SPECIAL FEATURES

| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Hot swappable batteries; Auto Probe Monitoring (requires WEBCARDLX) |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS |

## STANDARDS & COMPLIANCE

| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI) |

## WARRANTY

| Product Warranty Period (Worldwide) | 2-year warranty, 3 year with registration. Note:&lt;a class="insuranceLink" href="/www.tripplite.com/support/product-warranty-registration">Registration is required</a>&lt;/&amp;nbsp;for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 &lt;a class="insuranceLink" href="/www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&lt;/&amp;nbsp; |

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