200–240V 6000VA 6000W On-Line UPS with Bypass PDU, Hardwire Input/Output, 3U

MODEL NUMBER: SU6KRT3UHWMB

Double-conversion UPS with detachable PDU and maintenance bypass switch provides fulltime sine wave output for advanced network applications.

Features
- Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data Loss
  - Tripp Lite's SU6KRT3UHWMB Unity Power Factor UPS system with Maintenance Bypass Switch and Detachable PDU protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Unity Power Factor design enables full 6000VA / 6000W output capacity. In double-conversion mode, this UPS system maintains perfect output by continuously converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC with ±1% voltage regulation and zero transfer time between online and battery modes. Featuring true online, double-conversion operation, Tripp Lite's SmartOnline® SU6KRT3UHWMB provides the highest level of UPS power protection for critical server, network and telecom equipment.

High Availability Configuration Offers Reliable, Expandable Battery Backup
- Included Maintenance Bypass Switch is mounted on a detachable Bypass PDU that securely mounts to the rear-rails of a 4 post rack enclosure and remains safely in-place powering your equipment during UPS maintenance. The UPS connects to the Bypass PDU using a sophisticated blind-mate connector set with self-aligning guide-pins to ensure safe and reliable whole-UPS replacement with zero downtime for connected equipment. Featuring true online, double-conversion operation, Tripp Lite's SmartOnline® SU6KRT3UHWMB provides the highest level of UPS power protection for critical server, network and telecom equipment.

Applications
- Delivering perfectly regulated sine wave output to mission-critical equipment
- Protecting connected components from dangerous surges, spikes and line noise
- Keeping equipment operational through short power failures
- Allowing time to save data and safely shut down components in case of a prolonged blackout

Package Includes
- On-line double-conversion UPS
- Pre-installed WEBCARDLXMINI network management card
- Detachable bypass PDU
- (2) Hardwire strain reliefs
- USB cable
- RS-232 cable
- Rack-mounting hardware

Highlights
- Unity (1.0) power factor equalizes VA and wattage to safely support more equipment
- Zero transfer time between online and battery modes for uninterrupted operation
- Detachable PDU with maintenance bypass switch allows convenient hot-swapping
- Pre-installed WEBCARDLXMINI network interface supports Auto Probe feature
- ENERGY STAR-certified to save electricity, lower costs and protect the environment
Specifications

<table>
<thead>
<tr>
<th>OVERVIEW</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPC Code</td>
</tr>
<tr>
<td>UPS Type</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input current (Maximum Load)</td>
</tr>
<tr>
<td>Nominal Input Voltage(s) Supported</td>
</tr>
<tr>
<td>Nominal Input Voltage Description</td>
</tr>
<tr>
<td>UPS Input Connection Type</td>
</tr>
<tr>
<td>UPS Input Connection Description</td>
</tr>
<tr>
<td>Input Phase</td>
</tr>
<tr>
<td>Input Frequency</td>
</tr>
<tr>
<td>Power Factor (Input)</td>
</tr>
<tr>
<td>THDi</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Volt Amp Capacity (VA)</td>
</tr>
<tr>
<td>Output kVA Capacity (kVA)</td>
</tr>
<tr>
<td>Output Watt Capacity (Watts)</td>
</tr>
<tr>
<td>Output kW Capacity (kW)</td>
</tr>
<tr>
<td>Output Capacity Details</td>
</tr>
<tr>
<td>Power Factor</td>
</tr>
<tr>
<td>Crest Factor</td>
</tr>
</tbody>
</table>

Nominal Voltage Details Nominal output voltage selection is available via front panel LCD interface.
<table>
<thead>
<tr>
<th>Frequency Compatibility Details</th>
<th>MAX-QUALITY/MAX-EFFICIENCY/AUTO-ADAPTIVE MODES: Output frequency matches input nominal on startup and tracks input frequency up to ±3Hz of nominal; When input frequency is greater than ±3Hz of nominal, output frequency is inverter regulated to ±0.5Hz of nominal; BATTERY MODE: Output frequency is inverter regulated to ±0.5Hz of the configured nominal output frequency; FREQUENCY CONVERSION MODE: Output is inverter regulated to the selected 50/60Hz output setting with ±0.5Hz regulation (de-rates to 70% capacity, bypass not available); FREQUENCY REGULATION MODE: Enables frequency correction to ±0.5Hz of the frequency sensed by the UPS on startup (no de-rating, bypass is available when input frequency is within ±0.5Hz of output)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Circuit Breakers</td>
<td>None</td>
</tr>
<tr>
<td>Output AC Waveform (AC Mode)</td>
<td>Pure 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>200V; 208V; 220V; 230V; 240V</td>
</tr>
<tr>
<td>Output Receptacles</td>
<td>Hardwire</td>
</tr>
<tr>
<td>Output Voltage Regulation</td>
<td>±1% Inverter output; ±10% Economy mode; ±15% Bypass mode (configurable from ±5% to ±20%); Output voltage THD &lt;2% (full load) / &lt;3% (half load)</td>
</tr>
<tr>
<td>Individually Controllable Load Banks</td>
<td>No</td>
</tr>
<tr>
<td><strong>BATTERY</strong></td>
<td></td>
</tr>
<tr>
<td>Battery Type</td>
<td>Valve Regulated Lead Acid (VRLA)</td>
</tr>
<tr>
<td>Full Load Runtime (min.)</td>
<td>3 minutes (6000 watts)</td>
</tr>
<tr>
<td>Half Load Runtime (min.)</td>
<td>8.5 minutes (3000 watts)</td>
</tr>
<tr>
<td>Expandable Battery Runtime</td>
<td>Runtime is expandable with external battery packs</td>
</tr>
<tr>
<td>Expandable Runtime</td>
<td>Yes</td>
</tr>
<tr>
<td>Expandable Runtime Description</td>
<td>Up to 4 external battery packs with sensor cabling are automatically sensed and configured for advanced temperature controlled charging and accurate runtime reporting; Configurations using 5-10 external battery packs are supported, but may require the use of Tripp Lite's EXTERNAL BATTERY CONFIGURATION software for full integration</td>
</tr>
<tr>
<td>External Battery Pack Compatibility</td>
<td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &amp;nbs...</td>
</tr>
<tr>
<td>DC System Voltage (VDC)</td>
<td>192</td>
</tr>
<tr>
<td>Battery Recharge Rate (Included Batteries)</td>
<td>3 hours from 10% to 90% (typical, internal batteries with full load discharge); Charge settings: 1.5A (internal batteries) / 2A (with external battery packs) configures automatically; Supports temperature compensated battery charging</td>
</tr>
<tr>
<td>Battery Access</td>
<td>Front panel battery access door</td>
</tr>
<tr>
<td>Internal UPS Replacement Battery Cartridge</td>
<td>RBC58-3US (qty 1)</td>
</tr>
<tr>
<td>Battery Replacement Description</td>
<td>Hot-swappable, user replaceable internal batteries and external battery packs</td>
</tr>
<tr>
<td><strong>VOLTAGE REGULATION</strong></td>
<td></td>
</tr>
<tr>
<td>Voltage Regulation Description</td>
<td>±1% Inverter output regulation; ±10% in optional Eco mode</td>
</tr>
<tr>
<td>Overvoltage Correction</td>
<td>Corrects overvoltages as high as 275V</td>
</tr>
<tr>
<td>Undervoltage Correction</td>
<td>Corrects undervoltages as low as 156V (100% load) / 100V (50% load); derates linearly</td>
</tr>
</tbody>
</table>
## USER INTERFACE, ALERTS & CONTROLS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Panel LCD Display</td>
<td>Selectable LCD display with Escape, Page Up, Page Down, Enter and Power buttons enable UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)</td>
</tr>
<tr>
<td>Switches</td>
<td>Includes main power off/on switch, plus Up, Down, Enter and Esc switches to set and execute LCD functions.</td>
</tr>
<tr>
<td>Alarm Cancel Operation</td>
<td>Alarm cancel switch</td>
</tr>
<tr>
<td>Audible Alarm</td>
<td>Unique audible alarms for all major UPS, environmental and power conditions (see manual)</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>4 front-panel LEDs indicate AC input, AC output, Battery mode and Fault conditions</td>
</tr>
</tbody>
</table>

## SURGE / NOISE SUPPRESSION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS AC Suppression Joule Rating</td>
<td>1680</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>
</tbody>
</table>

## PHYSICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Method</td>
<td>Load and thermal controlled cooling fans; Field-replaceable (92mm x 38mm, ball-bearing, 115 CFM)</td>
</tr>
<tr>
<td>Included Mounting Accessory Description</td>
<td>Includes 4 post rackmount installation accessories; Included mounting brackets support front-to-rear rail distances of 520 to 914.4mm (20.5 to 36 in.); Enclosures require a minimum depth of 902 mm (35.5 in.) from the front rails to the closed rear door</td>
</tr>
<tr>
<td>Installation Form Factors Supported with Included Accessories</td>
<td>4 post 19 inch rackmount</td>
</tr>
<tr>
<td>Installation Form Factors Supported with Optional Accessories</td>
<td>2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)</td>
</tr>
<tr>
<td>Minimum Required Rack Depth (cm)</td>
<td>99.06</td>
</tr>
<tr>
<td>Minimum Required Rack Depth (inches)</td>
<td>39</td>
</tr>
<tr>
<td>Primary Form Factor</td>
<td>Rackmount</td>
</tr>
<tr>
<td>Primary UPS Depth (mm)</td>
<td>902</td>
</tr>
<tr>
<td>Primary UPS Height (mm)</td>
<td>131</td>
</tr>
<tr>
<td>Primary UPS Width (mm)</td>
<td>445</td>
</tr>
<tr>
<td>Rack Height</td>
<td>3U</td>
</tr>
<tr>
<td>Shipping Dimensions (hwd / in.)</td>
<td>28.00 x 23.75 x 34.75</td>
</tr>
<tr>
<td>Shipping Weight (kg)</td>
<td>86.18</td>
</tr>
<tr>
<td>Bypass PDU Dimensions (hwd / cm)</td>
<td>13.03 x 29.46 x 15.11</td>
</tr>
<tr>
<td>Bypass PDU Dimensions (hwd / in.)</td>
<td>5.13 x 11.6 x 5.95</td>
</tr>
<tr>
<td>Unit Dimension Details</td>
<td>Minimum required rack depth assumes 127mm / 5 in. additional depth for AC input/output cabling; See submittal drawing for additional dimension detail</td>
</tr>
<tr>
<td>UPS Housing Material</td>
<td>Sheet metal</td>
</tr>
<tr>
<td><strong>UPS Power Module Dimensions</strong> (hwd, in.)</td>
<td>5.14 x 17.5 x 35.5</td>
</tr>
<tr>
<td><strong>UPS Power Module Weight (kg)</strong></td>
<td>55.33</td>
</tr>
<tr>
<td><strong>UPS Power Module Weight (lbs.)</strong></td>
<td>121.99</td>
</tr>
</tbody>
</table>

**ENVIRONMENTAL**

| **Operating Temperature Range** | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius |
| **Storage Temperature Range** | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius |
| **Relative Humidity** | 5 to 95%, non-condensing |
| **AC Mode BTU / Hr. (Full Load)** | 1300 |
| **AC Mode Efficiency Rating (100% Load)** | >94% |
| **AC Economy Mode Efficiency Rating (100% Load)** | >98% |
| **Operating Elevation (ft.)** | Up to 6562 ft. |
| **Audible Noise** | 67.1dB (full load) / 53dB (no load) front side 1m |
| **Operating Elevation (m)** | Up to 2000m |

**COMMUNICATIONS**

| **Network Management Cards** | [WEBCARDLXMINI](//www.tripplite.com/network-interface-card-for-select-tripp-lite-ups-systems~WEBCARDLXMINI) |
| **Network Monitoring Port Description** | Includes Pre-installed WEBCARDLXMINI network management card; DB9 port supports RS-232 and Contact-closure signaling |
| **PowerAlert Software** | For local monitoring via the UPS’s built-in communication ports, download PowerAlert Local software at [https://www.tripplite.com/poweralert](https://www.tripplite.com/poweralert) |
| **Communications Cable** | USB, DB9 serial and EPO cables included |
| **WatchDog Compatibility** | Yes |
| **Communications Interface** | Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled) |

**LINE / BATTERY TRANSFER**

| **Transfer Time** | Online to Battery mode: 0 ms. (Zero transfer time) |
| **Transfer Time (Economy Mode)** | Online to Eco mode: 2 milliseconds / Eco to Battery mode: 8 milliseconds |
| **Low Voltage Transfer to Battery Power (Setpoint)** | 156V (full load) / 100V (50% load or less, derates linearly) |
| **High Voltage Transfer to Battery Power (Setpoint)** | 275V |

**SPECIAL FEATURES**

<p>| <strong>Cold Start (Startup in Battery Mode During a Power Failure)</strong> | Cold-start operation supported |
| <strong>High Availability UPS Features</strong> | Auto Probe Monitoring and Reboot (requires WEBCARDLXMINI); Automatic inverter bypass; Hot swappable UPS power module; Hot swappable batteries; Manual bypass switch |</p>
<table>
<thead>
<tr>
<th>Green Energy-Saving Features</th>
<th>High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation; Support for daily startup and shutoff</th>
</tr>
</thead>
</table>

### STANDARDS & COMPLIANCE

<table>
<thead>
<tr>
<th>UPS Certifications</th>
<th>CE; ENERGY STAR Qualified; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); TAA Compliant; Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)</th>
</tr>
</thead>
</table>

### WARRANTY

<table>
<thead>
<tr>
<th>Product Warranty Period (Worldwide)</th>
<th>2-year limited warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connected Equipment Insurance (U.S., Canada &amp; Puerto Rico)</td>
<td>$250,000</td>
</tr>
</tbody>
</table>

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