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Model #: SU1500RTXLCD2U

SmartOnline 1.5kVA On-Line Double-Conversion UPS, 2U Rack/Tower, Interactive LCD display, 100/110/120/127V NEMA outlets

Highlights

- 1500VA / 1.5kVA / 1350W on-line double-conversion 2U rack / tower UPS
- 100/110/120/127V 50/60Hz output; High efficiency economy mode option
- Interactive LCD with 9 selectable screens of UPS and site power data
- Expandable runtime, Hot-swap batteries, 18.5 in / 47cm depth
- USB, RS232 & EPO ports, support for SNMP/WEB card option
- 2 independently switched load banks
- NEMA 5-15P input; 6 NEMA 5-15R outlets
- **This product is ENERGY STAR qualified for its ability to save customers money while helping to protect the environment**



Description

Tripp Lite Smart Online UPS systems offer high performance power protection ideal for critical server and network equipment in datacenters, computer rooms and network closets. Online, double-conversion Uninterruptible Power Supply (UPS) maintains perfectly regulated output power by continuously converting raw AC input to DC, then re-converting output back to AC. Fully regulated sine wave AC output with +/-2% voltage regulation powers network equipment continuously, even during severe brownouts and overvoltages, all without depleting UPS battery reserves. Maintains battery-derived AC output during power failures with zero transfer time. Extended runtime options available. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. Network management interfaces support communications via USB, RS-232, contact-closure and optional SNMPWEBCARD network interface. Built-in DB9 port offers both enhanced RS-232 data and basic contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. LED display reports UPS operating mode, line power availability, battery mode operation, inverter operation, ECO mode status and output power availability. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode LCD configuration options. Programmable self-test. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs.

Package Includes

- SU1500RTXLCD2U UPS System
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Instruction manual

Features

- Tripp Lite SU1500RTXLCD2U 1500VA / 1.5kVA / 1350W on-line, double-conversion 2U rack / tower UPS
- Selectable 100/110/120/127V output (120V factory preset)
- NEMA 5-15P input, 6 NEMA 5-15R outlets
- Two switched 3-outlet load banks support remote reboot or programmable load shedding options
- Supports 2% output voltage regulation and zero transfer time in double conversion mode
- Economy mode option offers enhanced efficiency, reduced power consumption and lower BTU emissions
- 14 minutes runtime at 50% load (675W) and 4.2 minutes at 100% load (1350W) with internal batteries
- BP48V24-2U (limit 1) or BP48V60RT3U (no limit) external battery packs available (some configurations require Tripp Lite's [External Battery Configuration Software](#))
- LCD interface reports operating mode plus 9 selectable screens of UPS data (Load % & kW, Load % & kVA, Power factor, Input volts & Hz, Output volts & Hz, Battery volts and charge %, Minutes runtime, Capacity remaining, Kw/hr. consumption)
- LCD interface also supports 16 screens of UPS configuration and setup options

- 4 post installation hardware included, Optional 2POSTRMKITWM enables 2 post rack / wallmount installation, Optional 2-9USTAND enables tower placement
- Single line TEL / Network surge suppression
- Electronic bypass maintains utility output during a variety of UPS fault conditions
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- Frequency regulation / conversion mode offers generator-compatible frequency correction or conversion of frequency from 50 to 60Hz or 60 to 50Hz
- Built-in USB, RS-232, contact-closure and optional SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software

Specifications

| OUTPUT | |
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| Output Volt Amp Capacity (VA) | 1500 |
| Output kVA capacity (kVA) | 1.5 |
| Output Watt Capacity (watts) | 1350 |
| Output kW capacity | 1.35 |
| Output power factor | 0.9 |
| Output Capacity Details | ON LINE MODE: Maximum output capacity ratings are reduced for some nominal voltage settings (127/120V 1350 watts / 115V 1215 watts / 110V 1148 watts / 100V 1080 watts). FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 945 watts / 115V 850 watts / 110V 804 watts / 100V 756 watts). |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 100V; 110V; 115V; 120V; 127V |
| Nominal Voltage details | 120V factory-default nominal voltage |
| Frequency compatibility | 50/60 Hz (auto-selectable); Supports 50 to 60 Hz and 60 to 50 Hz conversion |
| Frequency compatibility details | ON LINE MODE: Output frequency is automatically configured to match nominal input frequency on startup; Output matches input frequency when +/-5Hz of nominal; Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal. UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. BATTERY MODE: Output is regulated to +/-0.05Hz. |
| Output voltage regulation (line mode) | +/- 2% |
| Output voltage regulation (Economy line mode) | +/- 10% |
| Output voltage regulation (Battery mode) | +/- 3% |
| Built-in UPS output receptacles | 6 5-15R outlet(s) |

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| Built-in controllable switched load banks | Two switchable three-outlet 5-15R load banks |
| Output AC waveform (AC mode) | Pure Sine wave |
| Output AC waveform (battery mode) | Pure Sine wave |
| INPUT | |
| Rated input current (at maximum load) | 12A |
| Nominal Input Voltage(s) Supported | 100V AC; 110V AC; 115V AC; 120V AC; 127V AC |
| Nominal input voltage description | 120V factory default |
| UPS input connection type | 5-15P |
| Input circuit breaker | 20A |
| UPS Input cord length (ft.) | 10 |
| UPS Input cord length (m) | 3 |
| Recommended Electrical Service | 15A 120V |
| BATTERY | |
| Full load runtime (minutes) | 4.2 min. (1350w) |
| Half load runtime (minutes) | 14 min. (675w) |
| Expandable battery runtime | Extended runtime supported via optional external battery packs |
| External battery pack compatibility | BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible) |
| Expandable runtime description | Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details |
| DC system voltage (VDC) | 48 |
| Battery recharge rate (included batteries) | Less than 3 hours recharge to 90% |
| Replacement battery cartridge (internal UPS battery replacement) | RBC94-2U |
| Battery Access | Front panel battery access |

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| Battery replacement description | Hot-swappable, user replaceable batteries |
| VOLTAGE REGULATION | |
| Voltage regulation description | Online, double-conversion power conditioning maintains 2% output voltage regulation during brownouts and overvoltages |
| Overvoltage correction | Corrects overvoltages to 150V (0-100% load) |
| Undervoltage correction | Corrects undervoltages to 100V at full load (90V at 100V nominal) |
| Severe undervoltage correction | Corrects brownouts to 70V (70% load) & 55V (33% load) |
| LEDS ALARMS & SWITCHES | |
| LED Indicators | 7 front panel LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, eco mode operation, bypass mode operation and AC output status |
| Front panel LCD display | Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, frequency, operating mode, alarm function and a variety of additional options |
| Alarms | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| Alarm cancel operation | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available |
| Switches | 2 switches control off/on power status and alarm-cancel operation; 2 additional scroll-down and scroll-up / select options enable LCD status viewing and configuration options |
| SURGE / NOISE SUPPRESSION | |
| UPS AC suppression joule rating | 570 |
| UPS AC suppression response time | Instantaneous |
| UPS Dataline suppression | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet |
| EMI / RFI AC noise suppression | Yes |
| PHYSICAL | |
| Installation form factors supported with included accessories | 4 post 19 inch rackmount |
| Installation form factors supported with optional accessories | 2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND) |
| Primary form factor | Rackmount |
| UPS / Power Module dimensions in primary form factor (height x width x depth / inches) | 3.5 x 17.5 x 18.5 |

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| UPS / Power Module dimensions in primary form factor (height x width x depth / cm) | 8.9 x 44.4 x 47 |
| Rack Height | 2U |
| Secondary form factor | Tower (requires 2-9U STAND) |
| UPS / Power Module weight (lbs) | 45.2 |
| UPS / Power Module weight (kg) | 20.5 |
| UPS Shipping dimensions (height x width x depth / inches) | 9.5 x 20 x 24 |
| UPS Shipping dimensions (height x width x depth / cm) | 24.1 x 50.8 x 61 |
| Shipping weight (lbs) | 57.8 |
| Shipping weight (kg) | 26.2 |
| Cooling method | Fan |
| UPS housing material | Steel |
| 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 | 0 to 95%, non-condensing |
| AC mode BTU / hr. (full load) | 455 |
| AC economy mode BTU / hr. (full load) | 292 |
| Battery mode BTU / hr. (full load) | 559 |
| AC economy mode efficiency rating (100% load) | 94% |
| Operating Elevation (ft.) | 0-3000m / 0-10,000 ft. |
| Audible Noise | 45 dBA at 1m front side |
| COMMUNICATIONS | |
| Communications interface | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface |

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| Network monitoring port description | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications |
| PowerAlert software | Included |
| Communications cable | USB and DB9 cabling included |
| WatchDog compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| LINE / BATTERY TRANSFER | |
| Transfer time | Zero (0 milliseconds) in double-conversion mode; 4 milliseconds economy mode |
| Low voltage transfer to battery power (setpoint) | 100V at full load (90V full load at 100V nominal setting); 70V at 70% load; 55V at 33% load |
| High voltage transfer to battery power (setpoint) | 150 |
| SPECIAL FEATURES | |
| Cold Start (startup in battery mode during a power failure) | Cold-start operation supported |
| High availability UPS features | Automatic inverter bypass; Hot swappable batteries |
| Green & high efficiency features | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); ENERGY STAR Qualified |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

Related Items

Optional Products

| Related Model | Description | Qty. |
|--------------------------------|---|------|
| WEXT3-500-1500 | 3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less | 1 |
| WEXT5-500-1500 | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less | 1 |
| BP48V24-2U | External Battery Pack for UPS System | 1 |
| BP48V60RT-3U | External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector | 1 |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web or Telnet | 1 |

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|----------------|---|---|
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires UPS with SNMPWEBCARD, monitored PDU or switched PDU.) | 1 |
| SRSWITCH | Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE | 1 |
| 2-9USTAND | Enables Tower Placement of Rackmount UPS Systems | 1 |
| 2POSTRMKITWM | Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems | 1 |
| PDUB15 | Single-Phase Hot-Swap PDU, 15A 120V, 2U Horizontal Rackmount, NEMA 5-15R outlets, set of 2 NEMA 5-15P input plugs | 1 |
| PDUMH15AT | Single-Phase Auto Transfer Switch / Metered PDU, 15A 120V, 1U Horizontal Rackmount, NEMA 5-15R outlets, 2 NEMA 5-15P inputs | 1 |
| PDUMNV15 | Single-Phase Monitored PDU, 15A 120V, 0U Vertical Rackmount, NEMA 5-15R outlets, NEMA 5-15P input plug | 1 |
| PDUMV15NET | Single-Phase Switched PDU, 15A 120V, 0U Vertical Rackmount, NEMA 5-15R outlets, NEMA 5-15P input plug | 1 |
| AS400CABLEKIT2 | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | 1 |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=5037.

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