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## Model #: SUINT2200RTXL2UA

**SmartOnline 2.2kVA On-Line Double-Conversion UPS, 2U Rack/Tower, 200/220/230/240V C13/C19 outlets**

### Highlights

- 2200VA / 2.2kVA / 1600 watt on-line double-conversion 2U rack/tower UPS
- 200/208/220/230/240V +/-2% output at 50/60Hz, high efficiency economy mode option
- Expandable runtime, Hot-swappable battery modules, Installed depth of only 19 in / 48.3cm
- USB, RS232 & EPO ports; support for SNMP/WEB card options
- Front panel status LEDs with detailed load and battery metering
- 2 independently switchable output load banks
- C20 inlet; C19 & C13 outlets



### Description

2200VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 483 mm. Expandable battery runtime with optional BP48V24-2U and BP48V60RT-3U external battery packs. Full-time sine wave 200/208/220/230 or 240V +/-3% output. Online, double-conversion Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 130V and overvoltages to 275V. Highly efficient operation in optional Economy Mode setting, saving BTU heat output and energy costs. C20 inlet input connection; 2 C19 and 4 C13 output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. 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 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated 2-bank PDU switching supports load shedding and remote-reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for better viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM two post rack & wallmount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty.

### Package Includes

- SUINT2200RTXL2Ua SmartOnline Double-Conversion UPS System
- PowerAlert Software with USB and serial cabling
- Mounting hardware for 4 post rack enclosures
- Power cables: (1) C19 to C20 and (2) C13 to C14
- Instruction manual with warranty information

### Features

- SmartOnline high performance UPS system is ideal for critical voice, data, medical and industrial network applications
- True on-line, double-conversion UPS provides perfectly regulated sine wave output within 3% of 200/208/220/230/240V (user selectable) under all usage condition
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time

- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 130V and as high as 275V back to selectable 200/208/220/230/240V (+/-3%) values
- Highly efficient operation in optional Economy Mode setting, saving BTU heat output and energy costs.
- Standard internal battery set offers 14 minutes runtime at half load (800W) and 5 minutes at full load (1600W)
- Extended Runtime with BP48V24-2U (limit 1) or BP48V60RT3U (multi-pack compatible) external battery packs
- Compact rackmount form factor installs using only 2 rack spaces (2U) with a maximum installed depth of only 483 mm
- Ships with all mounting accessories for 4 post rackmount installation
- Optional 2POSTRMKITWM enables 2 post rackmount or wallmount installation
- Optional 2-9USTAND accessory enables small-footprint upright tower placement
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Network interfaces support simultaneous communications via built-in USB, DB9 serial and SNMPWEBCARD slot
- 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 supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- Built-in Emergency Power Off (EPO) interface with cable
- C20 inlet power connection / C19 and C13 output receptacles
- C20 inlet accepts user-supplied AC power cord with country-specific plug
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (both of the C19 outlets are individually controllable)
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user required
- Single line TEL/DSL or network ethernet line surge suppression
- 2 year manufacturer's product warranty

## Specifications

| OUTPUT                                        |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| Output Volt Amp Capacity (VA)                 | 2200                                                                               |
| Output kVA capacity (kVA)                     | 2.2                                                                                |
| Output Watt Capacity (watts)                  | 1600                                                                               |
| Output kW capacity                            | 1.6                                                                                |
| Output power factor                           | 0.7                                                                                |
| Crest Factor                                  | 3:1                                                                                |
| Nominal Output Voltage(s) Supported           | 200V; 220V; 230V; 240V                                                             |
| Nominal Voltage details                       | 230V default                                                                       |
| Frequency compatibility                       | 50 / 60 Hz                                                                         |
| Frequency compatibility details               | Output frequency matches input nominal on startup, defaults to 50 Hz on cold-start |
| Output voltage regulation (line mode)         | +/- 3%                                                                             |
| Output voltage regulation (Economy line mode) | +/- 10%                                                                            |

|                                                                  |                                                                                           |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Output voltage regulation (Battery mode)                         | +/- 3%                                                                                    |
| Built-in UPS output receptacles                                  | 4 C13 outlet(s); 2 C19 outlet(s)                                                          |
| Included output power cables                                     | Includes 2 C13 to C14 and 1 C20 to C19 output power cables                                |
| Built-in controllable switched load banks                        | Two switchable single-outlet C19 load banks                                               |
| Output AC waveform (AC mode)                                     | Sine wave                                                                                 |
| Output AC waveform (battery mode)                                | Pure Sine wave                                                                            |
| <b>INPUT</b>                                                     |                                                                                           |
| Rated input current (at maximum load)                            | 9.7A (200V), 9.3A (208V), 8.8A (220V), 8.5A (230V), 8.1A (240V)                           |
| Nominal Input Voltage(s) Supported                               | 200V AC; 220V AC; 230V AC; 240V AC                                                        |
| UPS input connection type                                        | C20 inlet                                                                                 |
| UPS input connection description                                 | C20 inlet accepts user-supplied AC power cord with country specific plug                  |
| Input circuit breaker                                            | 15A                                                                                       |
| <b>BATTERY</b>                                                   |                                                                                           |
| Full load runtime (minutes)                                      | 5 min. (1600w)                                                                            |
| Half load runtime (minutes)                                      | 14 min. (800w)                                                                            |
| Expandable battery runtime                                       | Supports extended runtime with optional external battery packs                            |
| External battery pack compatibility                              | <a href="#">BP48V24-2U</a> (limit 1); <a href="#">BP48V60RT3U</a> (multi-pack compatible) |
| DC system voltage (VDC)                                          | 48                                                                                        |
| Battery recharge rate (included batteries)                       | Less than 6 hours from 10% to 80%                                                         |
| Replacement battery cartridge (internal UPS battery replacement) | <a href="#">RBC94-2U</a>                                                                  |
| Battery Access                                                   | Front panel battery access door                                                           |
| Battery replacement description                                  | Hot-swappable, user replaceable batteries                                                 |
| <b>VOLTAGE REGULATION</b>                                        |                                                                                           |
| Voltage regulation description                                   | Online, double-conversion power conditioning                                              |
| Overvoltage correction                                           | 3% output voltage regulation during overvoltages to 275                                   |

|                                                                                               |                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Undervoltage correction</b>                                                                | 3% output voltage regulation during undervoltages to 156                                                                                                                                                                                                 |
| <b>Severe undervoltage correction</b>                                                         | 3% output voltage regulation during undervoltages to 130 (under 70% load only)                                                                                                                                                                           |
| <b>LEDS ALARMS &amp; SWITCHES</b>                                                             |                                                                                                                                                                                                                                                          |
| <b>LED Indicators</b>                                                                         | 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats |
| <b>Alarms</b>                                                                                 | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions                                                                                                                                      |
| <b>Alarm cancel operation</b>                                                                 | Power-fail alarm can be silenced using alarm-cancel switch                                                                                                                                                                                               |
| <b>Switches</b>                                                                               | 2 Switches control off/on power status and alarm-cancel/self-test operation                                                                                                                                                                              |
| <b>SURGE / NOISE SUPPRESSION</b>                                                              |                                                                                                                                                                                                                                                          |
| <b>UPS AC suppression joule rating</b>                                                        | 660                                                                                                                                                                                                                                                      |
| <b>UPS AC suppression response time</b>                                                       | Instantaneous                                                                                                                                                                                                                                            |
| <b>EMI / RFI AC noise suppression</b>                                                         | Yes                                                                                                                                                                                                                                                      |
| <b>PHYSICAL</b>                                                                               |                                                                                                                                                                                                                                                          |
| <b>Installation form factors supported with included accessories</b>                          | 4 post 19 inch rackmount (mounting rail kit included)                                                                                                                                                                                                    |
| <b>Installation form factors supported with optional accessories</b>                          | 2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)                                                                                                                                                                             |
| <b>Primary form factor</b>                                                                    | Rackmount                                                                                                                                                                                                                                                |
| <b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b> | 3.5 x 17.5 x 19                                                                                                                                                                                                                                          |
| <b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>     | 8.9 x 44.4 x 48.3                                                                                                                                                                                                                                        |
| <b>Installed whole system total rack space height (rack spaces)</b>                           | 2U                                                                                                                                                                                                                                                       |
| <b>Secondary form factor</b>                                                                  | Tower (requires <a href="#">2-9USTAND</a> )                                                                                                                                                                                                              |
| <b>UPS / Power Module weight (lbs)</b>                                                        | 47.5                                                                                                                                                                                                                                                     |
| <b>UPS / Power Module weight (kg)</b>                                                         | 21.6                                                                                                                                                                                                                                                     |
| <b>UPS Shipping dimensions (height x width x depth / inches)</b>                              | 9 x 20.3 x 23                                                                                                                                                                                                                                            |

|                                                                    |                                                                                                                           |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>UPS Shipping dimensions (height x width x depth / cm)</b>       | 23 x 51.4 x 58.4                                                                                                          |
| <b>Shipping weight (lbs)</b>                                       | 59.8                                                                                                                      |
| <b>Shipping weight (kg)</b>                                        | 27.1                                                                                                                      |
| <b>UPS housing material</b>                                        | Steel                                                                                                                     |
| <b>Cooling method</b>                                              | Fan                                                                                                                       |
| <b>ENVIRONMENTAL</b>                                               |                                                                                                                           |
| <b>Operating Temperature Range</b>                                 | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius                                                                 |
| <b>Storage Temperature Range</b>                                   | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius                                                                |
| <b>Relative Humidity</b>                                           | 0 to 95%, non-condensing                                                                                                  |
| <b>AC mode BTU / hr. (full load)</b>                               | 885.6                                                                                                                     |
| <b>AC economy mode BTU / hr. (full load)</b>                       | 347.2                                                                                                                     |
| <b>Battery mode BTU / hr. (full load)</b>                          | 885.6                                                                                                                     |
| <b>AC economy mode efficiency rating (100% load)</b>               | 94%                                                                                                                       |
| <b>Audible Noise</b>                                               | Audible Noise: 50dBA At Front Side 1 Meter                                                                                |
| <b>COMMUNICATIONS</b>                                              |                                                                                                                           |
| <b>Communications interface</b>                                    | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface                    |
| <b>Network monitoring port description</b>                         | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications |
| <b>PowerAlert software</b>                                         | Included                                                                                                                  |
| <b>Communications cable</b>                                        | USB and DB9 cabling included                                                                                              |
| <b>WatchDog compatibility</b>                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                 |
| <b>LINE / BATTERY TRANSFER</b>                                     |                                                                                                                           |
| <b>Transfer time</b>                                               | No transfer time (0 ms.) in online, double-conversion mode                                                                |
| <b>Low voltage transfer to battery power (setpoint)</b>            | 160V (100% load), 130V (                                                                                                  |
| <b>High voltage transfer to battery power (setpoint)</b>           | 275                                                                                                                       |
| <b>SPECIAL FEATURES</b>                                            |                                                                                                                           |
| <b>Cold Start (startup in battery mode during a power failure)</b> | Cold-start operation supported                                                                                            |

|                                                                 |                                                                                                                                 |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>High availability UPS features</b>                           | Automatic inverter bypass; Hot swappable batteries                                                                              |
| <b>Green &amp; high efficiency features</b>                     | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation |
| <b>CERTIFICATIONS</b>                                           |                                                                                                                                 |
| <b>UPS Certifications</b>                                       | Tested to CE (EU); Tested to SASO (Saudi Arabia)                                                                                |
| <b>UPS Certification details</b>                                | Kuwait                                                                                                                          |
| <b>WARRANTY</b>                                                 |                                                                                                                                 |
| <b>Product Warranty Period (U.S., Canada &amp; Puerto Rico)</b> | 2-year limited warranty                                                                                                         |

## Related Items

### Optional Products

| Product Type             | Related Model                  | Description                                                                                                                                              | Qty. |
|--------------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| External Battery Packs   | <a href="#">BP48V24-2U</a>     | BP48V242U - External Battery Pack for UPS System                                                                                                         | -    |
| External Battery Packs   | <a href="#">BP48V60RT-3U</a>   | External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector                                                                                  | -    |
| SNMP Accessories         | <a href="#">SNMPWEBCARD</a>    | For remote monitoring and control via SNMP, Web, or Telnet.                                                                                              | -    |
| Environmental Monitoring | <a href="#">ENVIROSENSE</a>    | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)                                                       | -    |
| Shutdown Cable Kits      | <a href="#">AS400CABLE KIT</a> | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers                                                              | -    |
| Surge Protectors         | <a href="#">DNET1</a>          | Network Surge Suppressor - Essential protection for data and communication lines                                                                         | -    |
| Surge Protectors         | <a href="#">DTEL2</a>          | Network Surge Suppressor - Essential protection for data and communication lines                                                                         | -    |
| Rack Accessories         | <a href="#">SR25UB</a>         | 25U SmartRack Premium Enclosure (includes doors and side panels)                                                                                         | -    |
| Rack Accessories         | <a href="#">SR25UBSP1</a>      | 25U SmartRack Premium Enclosure (includes doors and side panels). Special shock pallet packaging enables safe loading and re-shipping of rack enclosure  | -    |
| Rack Accessories         | <a href="#">SR42UB</a>         | 42U SmartRack Premium Enclosure (includes doors and side panels)                                                                                         | -    |
| Rack Accessories         | <a href="#">SR42UBEXP</a>      | 42U SmartRack Premium Enclosure (no side panels included)                                                                                                | -    |
| Rack Accessories         | <a href="#">SR42UBSP1</a>      | 42U SmartRack Premium Enclosure (includes doors and side panels) - Special shock pallet packaging enables safe loading and re-shipping of rack Enclosure | -    |
| Rack Accessories         | <a href="#">SR2POST</a>        | 45U 2-Post SmartRack Open Frame Rack - Organize and Secure Network Rack Equipment                                                                        | -    |
| Rack Accessories         | <a href="#">SR4POST</a>        | 45U 4-Post SmartRack Open Frame Rack - Organize and Secure Network Rack Equipment                                                                        | -    |
| Power Distribution       | <a href="#">PDUNV</a>          | Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment                                                | -    |
| Power Distribution       | <a href="#">PDUV15</a>         | Safe, reliable power distribution for critical networking equipment                                                                                      | -    |
| Power Distribution       | <a href="#">PDU12IEC</a>       | Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment                                                | -    |
| Power Distribution       | <a href="#">PDUMV20HV</a>      | Metered 0U Vertical Rack PDU - Metered Power Distribution Unit for Network Applications                                                                  | -    |

|                          |                              |                                                                                                                                             |   |
|--------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---|
| Rackmount/Wallmount Kits | <a href="#">2POSTRMKITWM</a> | Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems                                                          | - |
| Rackmount/Wallmount Kits | <a href="#">UPSHDEARKIT</a>  | Heavy-Duty Mounting Ear Kit (Supports 2U cabinets up to 65 lb / 29 kg from front vertical rails in 4-post or 2-post racks and enclosures. ) | - |
| Tower Stands             | <a href="#">2-9USTAND</a>    | Enables Tower Placement of Rackmount UPS Systems                                                                                            | - |
| UPS Accessories          | <a href="#">MODBUSCARD</a>   | For remote monitoring and control via MODBUS protocol                                                                                       | - |

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=3970](http://www.tripplite.com/en/products/model.cfm?txtModelID=3970).

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