# SmartPro 2.2kVA 1920W Line Interactive Sine Wave UPS, SNMPWEBCARD option, 2U Rack/Tower, LCD, USB, RS232, EPO, 120V

MODEL NUMBER: **SMART2200RM2U**

## Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave
- 120V output, Corrects brownouts and overvoltages from 83V to 145V
- 0.9 Power Factor, Interactive LCD interface
- 4 post compatible mounting accessories
- 96% line-mode efficiency, 2 switched load banks
- USB, RS232, EPO and slot for SNMPWEBCARD option
- 120V NEMA 5-20P input, 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets

## Applications

Ideal for server, networking and telecommunications equipment

## Package Includes

- SMART2200RM2U UPS system
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Instruction manual

## Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 96% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and optional SNMPWEBCARD network interface. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. Includes PowerAlert monitoring software and complete cabling. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

## Features

- Tripp Lite SMART2200RM2U line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V
- NEMA 5-20P input plug; 4 NEMA 5-15R & 4 NEMA 5-15/20R output receptacles, Two independently switchable output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 96% efficiency rating in line-power mode offers reduced power consumption and BTU emisssions
- Internal batteries offer 12 minutes at 50% load (960W) and 4.5 minutes at 100% load (1920W)
- Hot-swappable, user-replaceable internal batteries can be replaced with no disruption to connected equipment

- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, RS-232 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; Built-in Emergency Power Off (EPO) interface with cable

## Specifications

| OUTPUT | |
|---|---|
| Output Volt Amp Capacity (VA) | 2200 |
| Output kVA capacity (kVA) | 2.2 |
| Output Watt Capacity (watts) | 1920 |
| Output kW capacity | 1.92 |
| Nominal Output Voltage(s) Supported | 120V |
| Frequency compatibility | 60 Hz |
| Output voltage regulation (line mode) | -14%, +6% |
| Output voltage regulation (Battery mode) | +/- 5% |
| Built-in UPS output receptacles | 4 5-15R outlet(s); 4 5-15/20R outlet(s) |
| Built-in controllable switched load banks | Two switchable single-outlet 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) | 16A (120V) |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS input connection type | 5-20P |
| Input circuit breaker | 20A |
| UPS Input cord length (ft.) | 10 |
| UPS Input cord length (m) | 3 |
| Recommended Electrical Service | 20A 120V |
| Phase | Single-Phase |

| **BATTERY** | |
|---|---|
| Full load runtime (minutes) | 4.5 min. (1920w) |
| Half load runtime (minutes) | 12 min. (960w) |
| DC system voltage (VDC) | 48 |
| Battery recharge rate (included batteries) | Less than 4.5 hours from 10% to 90% |
| Replacement battery cartridge (internal UPS battery replacement) | RBC94-2U |
| Battery Access | Front panel battery access door |
| Battery replacement description | Hot-swappable, user replaceable batteries |

| **VOLTAGE REGULATION** | |
|---|---|
| Voltage regulation description | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145 |
| Overvoltage correction | Input voltages between 127 and 145 are reduced by 12% |
| Undervoltage correction | Input voltages between 108 and 96 are boosted by 12% |
| Severe undervoltage correction | Input voltages between 83 and 95 are boosted by 24% |

| **LEDS ALARMS & SWITCHES** | |
|---|---|
| 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, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring 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 | 3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions |

| **SURGE / NOISE SUPPRESSION** | |
|---|---|
| UPS AC suppression joule rating | 570 |
| UPS AC suppression response time | Instantaneous |
| EMI / RFI AC noise suppression | Yes |

| **PHYSICAL** | |
|---|---|
| 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 19.5 |

| | |
|---|---|
| UPS / Power Module dimensions in primary form factor (height x width x depth / cm) | 8.9 x 44.4 x 49.4 |
| Rack Height | 2U |
| Secondary form factor | Tower (requires 2-9USTAND) |
| UPS / Power Module weight (lbs) | 57.6 |
| UPS / Power Module weight (kg) | 26.1 |
| UPS Shipping dimensions (height x width x depth / inches) | 7.9 x 21.7 x 24.2 |
| UPS Shipping dimensions (height x width x depth / cm) | 20.1 x 55.1 x 61.5 |
| Shipping weight (lbs) | 57.6 |
| 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) | 306 |
| AC mode efficiency rating (100% load) | 96% |

### COMMUNICATIONS

| | |
|---|---|
| Communications interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| Network monitoring port description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert software | Included |
| Communications cable | USB, DB9 and EPO cabling included |
| WatchDog compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |

### LINE / BATTERY TRANSFER

| | |
|---|---|
| Transfer time | 5 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode) |
| Low voltage transfer to battery power (setpoint) | 83 |
| High voltage transfer to battery power (setpoint) | 145 |

### SPECIAL FEATURES

| | |
|---|---|
| Grounding lug | Back panel grounding lug |

| Cold Start (startup in battery mode during a power failure) | Cold-start operation supported |
|---|---|
| High availability UPS features | Hot swappable batteries |
| Green & high efficiency features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |

| **CERTIFICATIONS** | |
|---|---|
| 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: Registration is required for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 Ultimate Lifetime Insurance |

# Related Items

## Optional Products

| Model Number | Description | Qty. |
|---|---|---|
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web, or Telnet. | 1 |
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | 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 |
| WEXT5-2200-3000 | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less | 1 |
| PDU1220 | Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment | 1 |
| WATCHDOGSW | WatchDog Service Monitoring / Reboot Software | 1 |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:

http://www.tripplite.com/sku/SMART2200RM2U.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Tripp Lite](#):
  [SMART2200RM2U](#)