

## SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, 2U, Extended Run, Network Card Options, LCD, USB, DB9

MODEL NUMBER: **SMART2600RM2U**



### 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 installed 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. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. PowerAlert UPS monitoring software is available via free download. 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 SMART2600RM2U line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages

### Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave output
- 120V output, Corrects brownouts and overvoltages from 83V to 145V
- Interactive LCD interface, 4 post compatible mounting accessories
- 96% line-mode efficiency, 2 switched load banks
- USB, RS232, EPO and slot for Network Management Card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R, 4 NEMA 5-15/20R & 1 L5-20R outlets

### Package Includes

- SMART2600RM2U UPS system
- USB, Serial & EPO cabling
- 4 post installation kit
- Owner's manual



from 83 to 145V

- NEMA 5-20P input plug; 4 NEMA 5-15/20R, 4 5-15R and 1 L5-20R output receptacles, Two independently switched 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 emissions
- Internal batteries offer 12.9 minutes at 50% load (960W) and 4.6 minutes at 100% load (1920W)
- Extended runtime is available with optional [BP48V24-2U](#) (limit 1), [BP48V60RT-3U](#) (multi-pack compatible) and [BP48V27-2US](#) (multi-pack compatible)
- External battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Intelligent battery management system extends battery life
- 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 [2-9U STAND](#) enables tower placement
- Built-in USB, RS-232 and slot for Network Management Card option
- Compatible with Tripp Lite UPS management card options [TLNETCARD](#), [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](http://www.tripplite.com/poweralert)
- 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 (kW)       | 1.92 |
| Power Factor                  | 0.87 |



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|                                            |                                                                                                                      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Nominal Output Voltage(s) Supported        | 110V; 115V; 120V                                                                                                     |
| Nominal Voltage Details                    | 120v nominal output in battery mode                                                                                  |
| Frequency Compatibility                    | 60 Hz                                                                                                                |
| Output Voltage Regulation (Line Mode)      | -14%, +6%                                                                                                            |
| Output Voltage Regulation (Battery Mode)   | +/- 5%                                                                                                               |
| Output Receptacles                         | (4) 5-15R; (4) 5-15/20R; (1) L5-20R                                                                                  |
| Load Management Receptacles                | Two switchable single-outlet 5-15R load banks                                                                        |
| Output Circuit Breakers                    | 15A breaker protects 5-15R, 20A breaker protects 5-15/20R, L5-20R is unbreakered                                     |
| Output AC Waveform (AC Mode)               | Sine wave                                                                                                            |
| Output AC Waveform (Battery Mode)          | Pure Sine wave                                                                                                       |
| <b>INPUT</b>                               |                                                                                                                      |
| Rated input current (Maximum Load)         | 16A                                                                                                                  |
| Nominal Input Voltage(s) Supported         | 120V AC                                                                                                              |
| UPS Input Connection Type                  | 5-20P                                                                                                                |
| UPS Input Cord Length (ft.)                | 10                                                                                                                   |
| UPS Input Cord Length (m)                  | 3.0                                                                                                                  |
| Recommended Electrical Service             | 20A 120V                                                                                                             |
| Input Phase                                | Single-Phase                                                                                                         |
| <b>BATTERY</b>                             |                                                                                                                      |
| Full Load Runtime (min.)                   | 4.6 min. (1920w)                                                                                                     |
| Half Load Runtime (min.)                   | 12.9 min. (960w)                                                                                                     |
| Expandable Battery Runtime                 | Extended runtime supported via optional external battery packs                                                       |
| External Battery Pack Compatibility        | <u>BP48V24-2U</u> (limit 1); <u>BP48V60RT-3U</u> (multi-pack compatible); <u>BP48V27-2US</u> (multi-pack compatible) |
| DC System Voltage (VDC)                    | 48                                                                                                                   |
| Battery Recharge Rate (Included Batteries) | Less than 4.5 hours from 10% to 90% (typical, full load discharge)                                                   |
| Internal UPS Replacement Battery Cartridge | <u>RBC94-2U</u>                                                                                                      |
| Battery Access                             | Front panel battery access door                                                                                      |
| Battery Replacement Description            | Hot-swappable, user replaceable batteries                                                                            |
| Expandable Runtime                         | Yes                                                                                                                  |



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| 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 147 are reduced by 12%                                                                                                                                                                                                                                   |
| Undervoltage Correction                                       | Input voltages between 95 and 104 are boosted by 12%                                                                                                                                                                                                                                    |
| Severe Undervoltage Correction                                | Input voltages between 83 and 94 are boosted by 24%                                                                                                                                                                                                                                     |
| USER INTERFACE, ALERTS & CONTROLS                             |                                                                                                                                                                                                                                                                                         |
| 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) |
| Switches                                                      | 3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions                                                                                                                                                                                  |
| Alarm Cancel Operation                                        | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available                                                                                                                                                                |
| Audible Alarm                                                 | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions                                                                                                                                                                     |
| SURGE / NOISE SUPPRESSION                                     |                                                                                                                                                                                                                                                                                         |
| UPS AC Suppression Joule Rating                               | 570                                                                                                                                                                                                                                                                                     |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                                                           |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                                                                     |
| PHYSICAL                                                      |                                                                                                                                                                                                                                                                                         |
| Included Mounting Accessory Description                       | 4 post rackmount installation accessories included                                                                                                                                                                                                                                      |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount ( <a href="#">2POSTRMKITWM</a> ); Wallmount ( <a href="#">2POSTRMKITWM</a> ); Tower ( <a href="#">2-9USTAND</a> )                                                                                                                                                      |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                                                               |
| UPS Power Module Dimensions (hwd, in.)                        | 3.46 x 17.32 x 19.46                                                                                                                                                                                                                                                                    |
| UPS Power Module Dimensions (hwd, cm)                         | 8.79 x 43.99 x 49.43                                                                                                                                                                                                                                                                    |
| Rack Height (U Spaces)                                        | 2                                                                                                                                                                                                                                                                                       |
| Minimum Required Rack Depth (inches)                          | 26.5                                                                                                                                                                                                                                                                                    |
| Minimum Required Rack Depth (cm)                              | 67.31                                                                                                                                                                                                                                                                                   |
| UPS Power Module Weight (lbs.)                                | 64                                                                                                                                                                                                                                                                                      |
| UPS Power Module Weight (kg)                                  | 29.03                                                                                                                                                                                                                                                                                   |
| UPS Shipping Dimensions (hwd / in.)                           | 7.8 x 21.7 x 24.2                                                                                                                                                                                                                                                                       |



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|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPS Shipping Dimensions (hwd / cm)               | 19.81 x 55.12 x 61.47                                                                                                                                                                        |
| Shipping Weight (lbs.)                           | 72                                                                                                                                                                                           |
| Shipping Weight (kg)                             | 32.7                                                                                                                                                                                         |
| Cooling Method                                   | Fan                                                                                                                                                                                          |
| UPS Housing Material                             | Steel                                                                                                                                                                                        |
| Minimum Required Rack Depth (mm)                 | 673                                                                                                                                                                                          |
| Primary UPS Height (mm)                          | 88                                                                                                                                                                                           |
| Primary UPS Width (mm)                           | 440                                                                                                                                                                                          |
| Primary UPS Depth (mm)                           | 494                                                                                                                                                                                          |
| Shipping Height (mm)                             | 198                                                                                                                                                                                          |
| Shipping Width (mm)                              | 551                                                                                                                                                                                          |
| Shipping Depth (mm)                              | 615                                                                                                                                                                                          |
| <b>ENVIRONMENTAL</b>                             |                                                                                                                                                                                              |
| 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)                    | 250                                                                                                                                                                                          |
| Battery Mode BTU / Hr. (Full Load)               | 980                                                                                                                                                                                          |
| AC Mode Efficiency Rating (100% Load)            | 96%                                                                                                                                                                                          |
| <b>COMMUNICATIONS</b>                            |                                                                                                                                                                                              |
| Communications Interface                         | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface                                                                                       |
| Network Management Cards                         | SNMPWEBCARD; TLNETCARD; WEBCARDLX; RELAYIOCARD                                                                                                                                               |
| Network Monitoring Port Description              | Supports detailed monitoring of UPS and site power conditions                                                                                                                                |
| PowerAlert Software                              | 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> |
| Communications Cable                             | USB and DB9 cabling included                                                                                                                                                                 |
| WatchDog Compatibility                           | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                                                                                    |
| <b>LINE / BATTERY TRANSFER</b>                   |                                                                                                                                                                                              |
| Transfer Time                                    | 5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)                                                                                                                  |
| Low Voltage Transfer to Battery Power (Setpoint) | 83                                                                                                                                                                                           |



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|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| High Voltage Transfer to Battery Power (Setpoint)           | 145                                                                                                                                                    |
| <b>SPECIAL FEATURES</b>                                     |                                                                                                                                                        |
| 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 Energy-Saving Features                                | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks                                                                          |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                                                        |
| UPS Certifications                                          | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances) |
| <b>WARRANTY</b>                                             |                                                                                                                                                        |
| Product Warranty Period (Worldwide)                         | 2-year warranty, 3 year with registration. Note: <u>Registration is required</u> for 3-year warranty.                                                  |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <u>Ultimate Lifetime Insurance</u>                                                                                                           |

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