

SmartPro 120V 2200VA 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 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 emisssions
- 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

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
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

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



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 2-9USTAND 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 tripplite.eaton.com/products/power-alert
- Built-in Emergency Power Off (EPO) interface with cable

Specifications

OVERVIEW		
UPC Code	037332116819	
UPS Type	Line-Interactive	
INPUT		
Input Phase	Single-Phase	
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)	3.1	
Recommended Electrical Service	20A 120V	
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Output Capacity (VA)	2200	
Output Capacity (kVA)	2.2	
Output Capacity (Watts)	1920	
Output Capacity (kW)	1.92	
Power Factor	0.87	
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%	
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	
Nominal Output Voltage(s) Supported	110V; 115V; 120V	
Output Receptacles	(4) 5-15R; (4) 5-15/20R; (1) L5-20R	
Individually Controllable Load Banks	Yes	
BATTERY		
Battery Type	Valve Regulated Lead Acid (VRLA)	
Runtime Full Load (min.)	4.6 min. (1920W)	
Runtime Half Load (min.)	12.9 min. (960W)	
Expandable Runtime	Yes	
External Battery Pack Compatibility	BP48V24-2U (limit 1); BP48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems~BP48V60RT-3U">BP48V60RT-3U (multi-pack compatible); BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us">BP48V27-2US"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2u< td=""></bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2us"<bp48v27-2u<></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us"></bp48v27-2us">	
DC System Voltage (VDC)	48	
Battery Recharge Rate (Included Batteries)	Less than 4.5 hours from 10% to 90% (typical, full load discharge)	
Battery Access	Front panel battery access door	
Internal UPS Replacement Battery Cartridge	RBC94-2U	
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 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	
Primary Form Factor	Rackmount
Rack Height	2U
Cooling Method	Fan
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2-9USTAND enables upright tower UPS placement; 2POSTRMKITWM enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT enables installation in 2 or 4-post racks using front vertical rails only, without rear support



SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD : : a class="pro			
Primary UPS Width (mm) 440 Shipping Dimensions (hwd / in.) 9.00 x 24.10 x 22.00 Shipping Dimensions (hwd / cm) 22.86 x 61.21 x 55.88 Shipping Weight (lbs.) 81.10 Shipping Weight (kg) 36.79 UPS Housing Material Steel UPS Fower Module Dimensions (hwd, cm) 8.79 x 43.99 x 49.43 UPS Fower Module Dimensions (hwd, cm) 9.00 x 24.94 x 3.90 x 49.43 UPS Fower Module Dimensions (hwd, cm) 1.25 x 19.46 UPS Power Module Dimensions (hwd, cm) 1.25 x 19.46 UPS Power Module Weight (kg) 29.03 UPS Power Module Weight (lbs.) 64.0000 Unit Weight (lbs.) 64.0000 Unit Weight (lbs.) 64.0000 Unit Weight (lbs.) 65 x 10.0000 ENVIRONMENTAL Operating Temperature Range 5° to 122°F (-15° to 50°C) Relative Humidity 0 to 95%, non-condensing AC Mode BTU / Hr. (Full Load) 980 Battery Mode BTU / Hr. (Full Load) 980 Load) 98% Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards Smarti-Cardon Committee (Laboration Committee) Systems—TLNETCARD-7s TLNETCARD-4a-8 hitsps;; -a class= 'productLink' href='//ripplite eaton.com/Web-Management-Accessory-Card-WEBGANDLX-via-8 in class= 'productLink' href='/ripplite eaton.com/Web-Management-Accessory-Card-WEBGANDLX-via-8 in class= 'productLink' href='/ripplite eaton.com/Web-Management-Accessory-Card-WEBGANDLX-via-8 in class= 'productLink' href='/ripplite eaton.com/Web-Management-Accessory-	Primary UPS Depth (mm)	494	
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Shipping Weight (lbs.) Shipping Weight (kg) 36.79 UPS Housing Material UPS Power Module Dimensions (fwd, cm) 8.79 x 43.99 x 49.43 UPS Power Module Dimensions (fwd, cm) 3.46 x 17.32 x 19.46 UPS Power Module Weight (kg) 29.03 UPS Power Module Weight (lbs.) 64 Unit Weight (lbs.) 64.0000 Unit Weight (kg) 29.03 ENVIRONMENTAL Operating Temperature Range 32° to 104°F (0° to 40°C) Storage Temperature Range 5° to 122°F (-15° to 50°C) Relative Humidity 0 to 95%, non-condensing AC Mode BTU / Hr. (Full Load) Battery Mode BTU / Hr. (Full Load) 96% Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards SNMPWEBCARD. & https://doi.org/10.1016/j.ca/maximum.en/beb-Management-Accesory-Card-RelEARD-X-a-knbsp;: & https://sripplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Programmable-Relay-I-O-Card-RelEARD-X-S-knbsp;: & https://sripplite.eaton.com/Web-Management-Accesory-Earl-Virtipplite.eaton.com/Programmable-Relay-I-O-Card-RelEARD-X-S-knbsp;: & https://sripplite.eaton.com/Programmable-Relay-I-O-Card-Web-EARD-X-S-knbsp;: & https://sripplite.eaton.com/Programmable-Relay-I-O-Card-Web-EARD-X-S-knbsp;: & https://sripplite.eaton.com/Programmable-Relay-I-O-Card-Web-EARD-X-S-knbsp;: & https://sripplite.eaton.com/Programmable-Relay-I-O-Card-Web-EARD-X-S-knbsp;: & https://sripplite.eaton.com/Programmable-Relay-I-O-Card-Web-EARD-X-S-knbsp;: & https://sripplite.eaton.com/Products/power-alert USB and DB9 cabling included Watch Dog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications	Shipping Dimensions (hwd / in.)	9.00 x 24.10 x 22.00	
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UPS Power Module Dimensions (hwd, cm) UPS Power Module Dimensions (hwd, cm) 3.46 x 17.32 x 19.46 UPS Power Module Dimensions (hwd, in) UPS Power Module Weight (kg) 29.03 UPS Power Module Weight (kg) 29.03 UPS Power Module Weight (bs.) 64.0000 Unit Weight (kg) 29.03 ENVIRONMENTAL Operating Temperature Range 32" to 104"F (0" to 40"C) Storage Temperature Range 5" to 122"F (-15" to 50"C) Relative Humidity 0 to 95%, non-condensing AC Mode BTU / Hr. (Full Load) 250 Battery Mode BTU / Hr. (Full Load) 96% Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards SNMPWEBCARD; <a class="productLink" href="//tripplite.eaton.com/Web-Management-Acces SmartPro-SmartOnline-UPS-Systems~TLNETCARD" hripplite.eaton.com="" productlink"="" swbsp;<a="" web-management-access-href="//hripplite</td><td>UPS Housing Material</td><td>Steel</td></tr><tr><td>UPS Power Module Weight (kg) Unit Weight (lbs.) ENVIRONMENTAL Operating Temperature Range 32° to 104°F (0° to 40°C) Storage Temperature Range 5° to 122°F (-15° to 50°C) Relative Humidity AC Mode BTU / Hr. (Full Load) Battery Mode BTU / Hr. (Full Load) Battery Mode BTU / Hr. (Full Load) AC Mode Efficiency Rating (100% Load) Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards SNMPWEBCARD: .TLNETCARD~/a> ; TLNETCARD~/a> ; WEBCARDLX&nclass="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-WEBCARDLX">WEBCARDLX&nclass="productLink" href="//tripplite.eaton.com/Porgammable-Relay-I-O-Card-RELAYIOCARD>/a> 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 software at https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card	Operating Temperature Range	32° to 104°F (0° to 40°C)	
AC Mode BTU / Hr. (Full Load) Battery Mode BTU / Hr. (Full Load) AC Mode Efficiency Rating (100% Load) AC Mode Efficiency Rating (100% Load) Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards SNMPWEBCARD; RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="/tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD*/sa*nclass="productLink" href="/tripplite.eaton.com/products/power-alert" href="/tripplite.eaton.com/products/power-alert" https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included Network Management Card Network Ma	Storage Temperature Range	5° to 122°F (-15° to 50°C)	
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Audible Noise 45 dBA maximum, front side 1m COMMUNICATIONS Network Management Cards SNMPWEBCARD; TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD WeBCARDLX'>WEBCARDLX'>WEBCARDLX'>WEBCARDLX'>WEBCARDLX'>WEBCARDLX'>ASNOTATE Card~RELAYIOCARD">TENTINETCARD SmartPro-SmartOnline-UPS-Systems~TLNETCARD WeBCARDLX'>WEBCARDLX'>WEBCARDLX'>WEBCARDLX'>WEBCARDLX'>ASNOTATE Card~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 software at https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card Network Management Card	Battery Mode BTU / Hr. (Full Load)	980	
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SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD- ; WEBCARDLX -&n class="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD- Network Monitoring Port Description PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card Network Management Card	COMMUNICATIONS		
PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card	Network Management Cards	SNMPWEBCARD; TLNETCARD ; WEBCARDLX ; RELAYIOCARD	
https://tripplite.eaton.com/products/power-alert Communications Cable USB and DB9 cabling included WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card Network management card optional	Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions	
WatchDog Compatibility Supports Watchdog application, OS and hard-reboot restart options for remote applications Network Management Card Network management card optional	PowerAlert Software		
Network Management Card Network management card entitional	Communications Cable	USB and DB9 cabling included	
	WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications	
		Network management card optional	
Communications Interface DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)	Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)	



LINE / BATTERY TRANSFER		
Transfer Time	5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)	
Low Voltage Transfer to Battery Power (Setpoint)	83	
High Voltage Transfer to Battery Power (Setpoint)	145	
FEATURES & SPECIFICATIONS		
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported	
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection	
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks	
Grounding Details	Back panel grounding lug	
APPLICATIONS		
UPS Applications	Large Network	
STANDARDS & COMPLIANCE		
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778	
Product Compliance	RoHS; FCC Part 15 Class A (USA)	
WARRANTY & SUPPORT		
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	



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