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Model #: SMART2200VS

SmartPro VS Tower UPS System - Intelligent, line-interactive power management system



Highlights

- 2200VA / 2.2kVA line interactive tower UPS
- Maintains 120V nominal output over an input range of 79 to 147V
- Network communications supported via 2 USB ports, 2 serial ports, SNMP/Web card slot and EPO interface
- Current monitoring and switched PDU control via 3 two-outlet load banks
- Input: NEMA 5-20P (120V 20A) / Output: 2 NEMA 5-15/20R, 7 NEMA 5-15R (120V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite's SMART 2200VS intelligent, line interactive UPS protects server, networking and telecommunications equipment from blackouts, voltage fluctuations and transient surges. Small footprint, tower UPS system occupies only 106 square inches of floor space with a height of only 14.25 inches. Large capacity 2200 VA/ 1600 watt rated UPS system offers 7 minutes runtime at full load and 19 minutes at half load during power failures. Line interactive voltage regulation corrects brownouts as low as 79V and overvoltages as high as 147V to fully regulated 120V nominal output for smooth continuous operation of connected equipment. Includes a total of 9 outlets, 3 pairs of which can be individually powered off and back on via software interface to selectively reboot remote equipment or shed less critical loads to extend battery runtime for more critical loads. Includes slot for internal SNMPWEBCARD, plus 2 DB9 and 2 USB enhanced monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data. Ships in attractive gray color scheme. Compatible with Tripp Lite's PowerAlert and Watchdog service software. 2 year warranty. \$250,000 [connected equipment insurance](#).

Package Includes

- SMART 2200VS UPS System, PowerAlert Software and cabling, Warranty information, Instruction manual

Features

- 2200VA/1600 watt output capacity accommodates a variety of server, networking and telecom devices
- High power density 2.2kVA UPS system occupies only 106 square inches of floor space with a height of only 14.25 inches
- Compatible with North American 120V/60 Hz power as found in the USA, Canada and Mexico
- Offers 7 minutes runtime with a full load of 2200VA and 19 minutes with a half load of 1100VA
- Line interactive voltage regulation corrects severe brownouts and overvoltages from 79 to 147v back to normal 120v levels without using battery power
- 9 total outlets (7 NEMA5-15R; 2 NEMA5-15/20R)
- Includes NEMA 5-20 straight blade 20 amp input plug connection
- Notification of system status via 5 LEDs and multi-function audible alarms
- Included PowerAlert Software provides e-mail notification of power problems and the simultaneous automatic unattended shutdown of multiple servers
- 4 built-in communications ports (2-DB9, 2-USB) for remote monitoring and unattended shutdown
- Slot for SNMP/web card (part#: SNMPWEBCARD) and environmental sensor (part#: ENVIROSENSE) for remote communications in large IP environments
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by automatically restarting them and rebooting

completely locked computers by automatically switching UPS power off and back on again

- Communication ports support on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status messaging. Interface supports timed inverter shutoff after unattended shutdown, activate self-test and 10 second reboot of connected equipment
- 3 pairs of customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or shed less critical loads to extend battery runtime for the most critical equipment
- Built-in Emergency Power Off (EPO) interface supports emergency shutoff in large facilities
- Hot-swappable/user replaceable batteries allow on-site battery replacement without powering off connected equipment
- UPS battery set ships fully assembled and ready for use, no time consuming, connection of individual internal batteries by user is necessary
- UL (USA), cUL (Canada), NOM (Mexico), Class A (Emissions)
- \$250,000 [Ultimate Lifetime Insurance](#). No warranty cards required for coverage!
- 2 year manufacturers 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
Nominal Output Voltage(s) Supported	120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-18% / +8%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	7 5-15R outlet(s); 2 5-15/20R outlet(s)
Built-in controllable switched load banks	Three switchable two-outlet 5-15R load banks
Basic PDU options	PDU1220 (1U / 13 5-15/20R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDUV20 (0U / 12 5-15/20R outlets); PDU40TDUAL (0U / 40 5-15/20R outlets)
Metered PDU options	PDUMH20 (1U / 13 5-15/20R outlets); PDUMH20AT (1U / 16 5-15/20R outlets)*; PDUMV20 (0U / 16 5-15/20R outlets); PDUMV40 (0U / 32 5-15/20R outlets)
Switched PDU options	PDUMH20ATNET (1U / 16 5-15/20R outlets)*; PDUMV20NET (0U / 24 5-15/20R outlets)
External PDU redundancy options	*Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	PWM sine wave
INPUT	
Rated input current (at maximum load)	16A

Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-20P
Input circuit breaker	20A
UPS Input cord length (ft.)	8
UPS Input cord length (m)	2.4
Recommended Electrical Service	20A 120V
BATTERY	
Full load runtime (minutes)	7 min. (1600w)
Half load runtime (minutes)	19 min. (800w)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC54
Battery Access	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 79V to 147V
Overvoltage correction	Input voltages between 128 and 147 are reduced by 12%
Undervoltage correction	Input voltages between 95 and 104 are boosted by 12%
Severe undervoltage correction	Input voltages between 79 and 94 are boosted by 24%
LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	480
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes

PHYSICAL

Installation form factors supported with included accessories

Tower

Primary form factor

Tower

UPS / Power Module dimensions in primary form factor (height x width x depth / inches)

14.2 x 9.2 x 12

UPS / Power Module dimensions in primary form factor (height x width x depth / cm)

36.2 x 23.5 x 30.5

Installed whole system dimensions in secondary form factor (height x width x depth / inches)

UPS dimensions in secondary form factor (height x width x depth / cm)

UPS / Power Module weight (lbs)

52.4

UPS / Power Module weight (kg)

23.8

Stepdown transformer dimensions (height x width x depth / inches)

Stepdown transformer dimensions (height x width x depth / cm)

Included battery pack dimensions (height x width x depth / inches)

Included battery pack dimensions (height x width x depth / cm)

UPS Shipping dimensions (height x width x depth / inches)

16 x 14.8 x 19.8

UPS Shipping dimensions (height x width x depth / cm)

40.6 x 37.5 x 50.2

Shipping weight (lbs)

58.8

Shipping weight (kg)

26.7

UPS housing material

Polycarbonate

Cooling method

Fan

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)	347.2
Battery mode BTU / hr. (full load)	812.9
Audible Noise	Audible Noise < 47dBA At Front Side 1 Meter
COMMUNICATIONS	
Communications interface	USB; DB9 Serial; Contact closure
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions; 2 USB ports, 1 DB9 serial and 1 DB9 contact closure port (4 total)
PowerAlert software	Included
Communications cable	2 USB and 2 DB9 cables included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	79
High voltage transfer to battery power (setpoint)	147
SPECIAL FEATURES	
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	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); ROHS (Reduction of Hazardous Substances)
WARRANTY	
Product Warranty Period (U.S., Canada & Puerto Rico)	2 years
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 connected equipment insurance

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
Power Distribution	PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	-
Power Distribution	PS7224-20	Tripp Lite Power Strip - Multiple outlets wherever you need them	-

SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
USB Hubs/Accessories	U022-010	10-ft. USB2.0 A/B Gold Device Cable (A Male to B Male)	-
Software	WATCHDOGSW	WatchDog Service Monitoring / Reboot Software	-
Surge Protectors	DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	-
Surge Protectors	DNET1	Network Surge Suppressor - Essential protection for data and communication lines	-
Extended Warranties	WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	-
Extended Warranties	WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	-

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=2558.

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