SmartPro 120V 2.2kVA 1.6kW Line-Interactive UPS, Tower, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SMART2200VS**

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 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.

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
- Intelligent battery management system extends battery life
- 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)

Highlights

- 2.2kVA / 2200VA line interactive tower UPS system
- 120V nominal output during brownouts to 79V and overvoltages to 147V
- Front panel status LEDs with load and battery capacity level display
- USB, RS232, EPO and slot for Network Card Options
- NEMA 5-20P input; 2 NEMA 5-15/20R & 7 5-15R outlets

Package Includes

- SMART 2200VS UPS System,
- USB and DB9 Serial cabling
- User manual

- Includes NEMA 5-20 straight blade 20 amp input plug connection

- Notification of system status via 5 LEDs and multi-function audible alarms

- 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

- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD

- 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

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.2
Output Watt Capacity (Watts)	1600
Output kW Capacity (kW)	1.6
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)	-18% / +8%
Output Voltage Regulation (Battery Mode)	+/- 5%

Output Receptacles	(7) 5-15R; (2) 5-15/20R
Load Management Receptacles	Three switchable two-outlet 5-15R load banks
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	PWM sine wave

INPUT	
Rated input current (Maximum Load)	16A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-20P
Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	8
UPS Input Cord Length (m)	2.4
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase

BATTERY	
Full Load Runtime (min.)	7 min. (1600w)
Half Load Runtime (min.)	19 min. (800w)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC54
Battery Access	Battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	No

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%

USER INTERFACE, ALERTS & CONTROLS	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status

Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status

SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	480
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes

PHYSICAL	
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	14.2 x 9.2 x 12
UPS Power Module Dimensions (hwd, cm)	36.07 x 23.37 x 30.48
UPS Power Module Weight (lbs.)	52.4
UPS Power Module Weight (kg)	23.77
UPS Shipping Dimensions (hwd / in.)	16 x 14.8 x 19.8
UPS Shipping Dimensions (hwd / cm)	40.64 x 37.59 x 50.29
Shipping Weight (lbs.)	58.8
Shipping Weight (kg)	26.7
Cooling Method	Fan
UPS Housing Material	Polycarbonate
Primary UPS Height (mm)	361
Primary UPS Width (mm)	234
Primary UPS Depth (mm)	305
Shipping Height (mm)	406
Shipping Width (mm)	376
Shipping Depth (mm)	503

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 Efficiency Rating (100% Load)	94%

Audible Noise	Audible Noise < 47dBA At Front Side 1 Meter

COMMUNICATIONS	
Communications Interface	Contact closure; DB9 Serial; Slot for SNMP/Web interface; USB
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX
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	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
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

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