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

MODEL NUMBER: **SMART2200VS**







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 and 7 5-15R 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

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

Description

The SMART2200VS 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 2200VA/1600W rated UPS system offers seven 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 nine outlets, three 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 two DB9 and two 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 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)
- 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 PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Compatible with UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- Supports 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

OVERVIEW	
UPC Code	037332115874
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
Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	8
UPS Input Cord Length (m)	2.4
Recommended Electrical Service	20A 120V
Maximum Input Amps	16
OUTPUT	
Output Capacity (VA)	2200
Output Capacity (kVA)	2.2
Output Capacity (Watts)	1600
Output Capacity (kW)	1.6
Power Factor	0.73
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%

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
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Output Receptacles	(7) 5-15R; (2) 5-15/20R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	7 min. (1600W)
Runtime Half Load (min.)	19 min. (800W)
Expandable Runtime	No
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90% (typical, full load discharge)
Battery Access	Battery access door
Internal UPS Replacement Battery Cartridge	RBC54
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%
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	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	480
AC Suppression Response Time	Instantaneous
PHYSICAL	

Primary Form Factor	Tower
Cooling Method	Fan
Installation Form Factors Supported with Included Accessories	Tower
Primary UPS Depth (mm)	305
Primary UPS Height (mm)	361
Primary UPS Width (mm)	234
Shipping Dimensions (hwd / in.)	19.30 x 16.50 x 14.20
Shipping Dimensions (hwd / cm)	49.02 x 41.91 x 36.07
Shipping Weight (lbs.)	58.00
Shipping Weight (kg)	26.31
UPS Housing Material	Polycarbonate
UPS Power Module Dimensions (hwd, cm)	36.07 x 23.37 x 30.48
UPS Power Module Dimensions (hwd, in.)	14.2 x 9.2 x 12
UPS Power Module Weight (kg)	23.77
UPS Power Module Weight (lbs.)	52.4
Unit Weight (lbs.)	52.4000
Unit Weight (kg)	23.77
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	0-95% non-condensing
AC Mode Efficiency Rating (100% Load)	94%
Audible Noise	Audible Noise < 47dBA At Front Side 1 Meter
COMMUNICATIONS	
Network Management Cards	TLNETCARD ; WEBCARDLXE
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 software at https://tripplite.eaton.com/products/power-alert
Communications Cable	2 USB and 2 DB9 cables included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card optional

Communications Interface	Contact closure; DB9 Serial; Slot for SNMP/Web interface; USB
LINE / BATTERY TRANSFER	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	79
High Voltage Transfer to Battery Power (Setpoint)	147
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
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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