

## SmartPro 230V 2.2kVA 1.6kW Line-Interactive UPS, Tower, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SMARTINT2200VS**



### Description

The SMARTINT2200VS intelligent line-interactive tower uninterruptible power supply (UPS) prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Large internal batteries offer 19 minutes half load runtime and seven minutes at full load. Maintains regulated 230V nominal output without using battery power during brownouts and overvoltages from 151 to 282V. 2200VA power handling capability offers compatibility with a variety of networking, telecom and other sensitive electronic applications. Includes a total of nine outlets with three load banks (two outlets each) that are individually switchable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. PowerAlert® UPS monitoring software is available via free download. Built-in accessory slot supports Network Management Card options. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency. Multi-function audible alarms and set of five front-panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive gray color scheme.

### Features

- SMARTINT2200VS line interactive UPS offers protection from blackouts, brownouts, overvoltages and surges
- 2200VA/1600W capacity
- Internal batteries support a half load of 1100VA for 19 minutes and a full load of 2200VA for 7 minutes
- Intelligent battery management system extends battery life
- Maintains regulated 230V nominal output during brownouts and overvoltages from 151 to 282V
- Includes 9 UPS supported outlets with 3 individually controllable load banks that can be powered off and back on again via software interface
- IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
- Optional WEBCARDLX (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities
- PADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations

### Highlights

- 2.2kVA / 2200VA line interactive tower UPS system
- 230V nominal output during brownouts to 151 and overvoltages to 282V
- Front panel status LEDs with load and battery capacity level display
- USB, RS232, EPO and slot for Network Management Card options; 3 switched load banks
- C20 inlet; 8 C13 and 1 C19 outlets; 3 C13 to C14 cables included
- Add optional WEBCARDLX with latest version of PADM20 for IP-based Auto Probe feature

### Package Includes

- SMARTINT2200VS UPS System
- USB and DB9 cables
- Cable for Emergency Power Off interface
- Instruction manual with warranty information
- C13 to C14 power cables (3)



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- IP-based Auto Probe detects lost connectivity and restores service autonomously
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from [tripplite.eaton.com/products/power-alert](http://tripplite.eaton.com/products/power-alert)
- Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for immediate reboot of connected devices
- Supports WatchDog software application (requires optional WATCHDOGSW)
- Built-in accessory slot supports Network Management Card options; Compatible with UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive gray color scheme
- Optional PDUBHV20 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OVERVIEW	
UPC Code	037332120304
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	11.3A
Nominal Input Voltage(s) Supported	230V AC
UPS Input Connection Type	C20 inlet
UPS Input Connection Description	IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
OUTPUT	
Output Capacity (VA)	2200
Output Capacity (kVA)	2.2
Output Capacity (Watts)	1600
Output Capacity (kW)	1.6
Power Factor	0.7
Nominal Voltage Details	230v inverter nominal output voltage
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Line Mode)	-19% +8%
Output Voltage Regulation (Battery Mode)	+/- 5%



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Included Output Power Cables	Includes 3 C13 to C14 output power cables
Load Management Receptacles	Three switchable two-outlet C13 load banks
Output Circuit Breakers	10A (x2) - each breaker protects 4 C13 outlets each, C19 is unbreakered
Hot-Swap PDU options	PDUBHV20 (2U / 6 C13, 2 C19 outlets)
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	PWM sine wave
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Output Receptacles	(8) C13; (1) C19
Individually Controllable Load Banks	Yes
<b>BATTERY</b>	
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	<a href="https://tripplite.eaton.com/UPS-Replacement-Battery-Cartridge-Kit-select-Tripp-Lite-Best-Powerware-Liebert-other-UPS~RBC54">RBC54</a>
Battery Replacement Description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 151V to 282V
Overvoltage Correction	Input voltages between 245 and 282 are reduced by 12%
Undervoltage Correction	Input voltages between 177 and 199 are boosted by 14%
Severe Undervoltage Correction	Input voltages between 151 and 176 are boosted by 30%
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
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
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC Suppression Joule Rating	480



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**TRIPP-LITE**  
by **EATON**

UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
<b>PHYSICAL</b>	
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 15.20 x 15.90
Shipping Dimensions (hwd / cm)	49.02 x 38.61 x 40.39
Shipping Weight (lbs.)	60.60
Shipping Weight (kg)	27.49
UPS Housing Material	Polycarbonate
UPS Power Module Dimensions (hwd, cm)	36.07 x 23.37 x 30.48
UPS Power Module Dimensions (hwd, in.)	14.20 x 9.20 x 12.00
UPS Power Module Weight (kg)	24.49
UPS Power Module Weight (lbs.)	54
Unit Weight (lbs.)	53.400
Unit Weight (kg)	24.22
<b>ENVIRONMENTAL</b>	
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 Efficiency Rating (100% Load)	94%
Audible Noise	Audible Noise < 47dBA At Front Side 1 Meter
<b>COMMUNICATIONS</b>	
Network Management Cards	&nbsp;<a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a>&nbsp;; &nbsp;<a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a>&nbsp;
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 <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>



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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
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	151
High Voltage Transfer to Battery Power (Setpoint)	282
<b>FEATURES &amp; SPECIFICATIONS</b>	
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
<b>APPLICATIONS</b>	
UPS Applications	Large Network
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Compliance	RoHS; CE (Europe); FCC Part 15 Class A (USA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://tripplite.eaton.com>

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