

# SmartPro Tower UPS

Intelligent, line interactive network power management system



## Model #: SMARTINT2200VS

- ▶ 2200VA line interactive tower UPS
- ▶ 9 outlets with 3 switchable load banks
- ▶ Simultaneous communications via SNMPWEBCARD slot, 2 USB ports and 2 DB9 serial ports
- ▶ Included PowerAlert UPS monitoring software manages an unlimited number of network UPS systems
- ▶ Corrects brownouts and overvoltages from 151-282V
- ▶ 2 year warranty

## DESCRIPTION

Tripp Lite's 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 7 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 9 outlets with 3 load banks (2 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. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. 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 5 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. Two year warranty.

## KEY BUYING POINTS

- SMARTINT2200VS line interactive UPS offers battery derived AC output during power outages, voltage regulation during brownouts and overvoltages, plus network-grade AC surge suppression
- 2200VA power handling capability offers compatibility with networking, telecom and other sensitive electronic devices
- Large internal batteries support a half load of 1100VA for 19 minutes and a full load of 2200VA for 7 minutes
- Maintains regulated 230V nominal output during brownouts and overvoltages from 151 to 282V
- Includes 9 UPS supported outlets with 3 individually controllable load banks (2 outlets per bank) that can be powered off and back on again via software interface
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, email notification, event logging, and running user-defined script commands.
- Offers simultaneous monitoring by up to 4 directly-connected devices through included USB and DB9 interface ports, or the monitoring by any number of additional servers over IP with included PowerAlert monitoring software.
- Communications ports support messaging of UPS and line power status, including on-battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity
- Emergency Power Off (EPO) interface with cable
- Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for immediate reboot of connected devices
- Supports Tripp Lite's WatchDog software application to restore operation to locked equipment through soft reboot of application, OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications (requires optional WATCHDOGSW)
- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- 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

- UPS battery set ships fully assembled, no time consuming connection of internal batteries by user is necessary
- Two year warranty

## TYPICAL APPLICATIONS

- Ideal for protection of sensitive electronics in any application calling for upright tower UPS protection. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems.

## OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- USB Hubs-accessories: [U202-004-R](#), [U205-004-R](#), [U022-010](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Power Distribution: [PDU12IEC](#)
- Watchdog software: [WATCHDOGSW](#)
- C13 to C14 interconnection cable: [P004-006](#)

## PACKAGE INCLUDES

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

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

**System overview:** 2200VA line interactive tower UPS, Automatic voltage regulation (AVR) with dual boost / single cut voltage correction, 3 individually controllable load banks, Remote reboot ability, Simultaneous communications via built-in SNMP card slot, USB and DB9 serial ports, PowerAlert UPS monitoring and safe shutdown software, Emergency Power Off (EPO) interface, complete cabling for USB, DB9 and EPO interfaces, Set of 3 C13 to C14 power cables, Network-grade voltage regulation and surge suppression, 5 LED indicators, Self test switch, Audible alarm with silence switch, Battery access door, User Replaceable batteries, Hot swappable battery replacement

**Voltage compatibility:** 230V AC

**Frequency compatibility:** 50/60 Hz auto-sensing

### OUTPUT

**Output volt amp capacity (VA):** 2200

**Output watt capacity (watts):** 1600

**Output nominal voltage:** 230V AC

**Output voltage regulation:** LINE MODE: Sine wave line voltage 230V (-19% +8%), BATTERY MODE: PWM sine wave output within 5% of 230V

**Output frequency regulation:** LINE MODE: Passes line frequency of 50/60Hz +/-10% BATTERY MODE: Inverter output regulated to 50/60Hz +/-0.5Hz

**Outlet quantity / type:** 9 outlets (8 C13, 1 C19)

**Customized load management receptacles:** Includes 3 load banks, each with 2 outlets that support load shedding and remote reboot on demand of locked network devices. Controllable via PowerAlert software to switch off optional loads, like monitors, to increase available runtime for servers and other critical

devices

**Overload protection:** Via branch rated 10A output breaker

## INPUT

**Input connection type:** C20 inlet

## BATTERY

**Full load runtime:** 7 minutes (2200VA)

**Half load runtime:** 19 minutes (1100VA)

**DC system voltage:** 48 VDC

**Typical battery lifespan:** 3-6 years, depending on usage

**Battery recharge rate:** 2-4 hours to 90%

**Replacement Battery Cartridge:** RBC54

## VOLTAGE REGULATION

**Voltage regulation description:** Automatic Voltage Regulation (AVR) circuits maintain clean, regulated computer-grade 230V nominal output, without using battery power, during brownouts to 151V and overvoltages to 282V

**Overvoltage correction:** Input voltages between 245 and 282 are reduced by 12%

**Direct pass through:** Input voltages between 200 and 244 are passed through to connected equipment unchanged

**Brownout correction:** Input voltages between 177 and 199 are boosted by 14%

**Severe brownout correction:** Input voltages between 151 and 176 are boosted by 30%

## LEDS ALARMS & SWITCHES

**Front panel LEDs:** 5 front panel LEDs indicate line power status, battery power status, battery low/replace status and voltage regulation operation

**Alarms:** Audible alarm with 15 second delay sounds to indicate loss of utility power. Alarm can be silenced by pressing front panel alarm cancel button. Once silenced, alarm will re-sound when approximately 2 minutes runtime remain.

**Switches:** Includes 2 front panel switches - one main on/off power switch and one dual function "alarm cancel" / "self test" button

## SURGE / NOISE SUPPRESSION

**AC surge suppression:** 480 joules

**AC suppression response time:** Instantaneous

**EMI / RFI AC noise suppression:** Yes

## PHYSICAL

**Shipping weight (lbs):** 60.5

**Shipping weight (kg):** 27.4

**Unit weight (lbs):** 54

**Unit weight (kg):** 24.5

**Unit Dimensions (HWD/in):** 14.25 x 9.25 x 12

**Unit Dimensions (HWD/cm):** 36.2 x 23.5 x 30.5

**Shipping Dimensions (HWD/in):** 16 x 14.75 x 19.75

**Shipping Dimensions (HWD/cm):** 40.6 x 37.5 x 50.2

**Material of construction:** Polycarbonate

**Form factors supported:** Tower

**Cooling method:** Fan

**Battery Access:** Battery access door allows user replacement of UPS batteries. Supports hot-swappable battery replacement.

## ENVIRONMENTAL

<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity:</b>	0 to 95%, non-condensing

## COMMUNICATIONS

<b>Network monitoring port:</b>	Includes 4 built-in monitoring ports, 2-USB & 2-DB9. Each supports 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
<b>Software and cabling included:</b>	Includes PowerAlert UPS monitoring software for network and standalone operating systems. Ships with complete USB and DB9 cabling.
<b>SNMP compatibility:</b>	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
<b>WatchDog compatibility:</b>	Compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications

## LINE / BATTERY TRANSFER

<b>Transfer time from line power to battery mode:</b>	2-4 milliseconds
<b>Low voltage transfer to battery power:</b>	151V (resets to line power as line voltage increases to 159 or higher)
<b>High voltage transfer to battery power:</b>	282V (resets to line power as line voltage decreases to 274 or lower)

## CERTIFICATIONS

<b>Certifications:</b>	UL1778, CE 62040
------------------------	------------------

## WARRANTY

<b>Product warranty:</b>	2 year product warranty
--------------------------	-------------------------

## SPECIAL FEATURES

<b>EPO port:</b>	Includes RJ11 EPO (emergency power off) port and cable
<b>Cold Start:</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance:</b>	Attractive gray tower UPS

*The policy of Tripp Lite is one of continuous improvement.  
Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



**Tripp Lite World Headquarters**  
1111 W. 35th Street  
Chicago, IL 60609 USA

**Customer Support**  
(773) 869-1234

© 2007 Tripp Lite. All Rights Reserved.