Smart Pro UPS System

Intelligent, line-interactive battery backup for network and telecommunications systems

Model #: SMART2200NET

- 2200VA line interactive tower UPS system for 120V network and telecommunications systems
- 3 Serial ports (1 RS-232, 2 contact closure), PowerAlert software and cabling
- Corrects brownouts and overvoltages from 87-140V
- Expandable with multiple BP24V33 external battery packs
- $250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

DESCRIPTION

Tripp Lite's SMART 2200NET intelligent, line interactive large tower UPS system protects servers, networking accessories and telecommunications equipment from blackouts, voltage fluctuations and transient surges. Large internal batteries offer 27 minutes half load runtime and 11 minutes fully loaded. Runtime is expandable with optional BP24V33 external battery packs. 2200VA / 1700 watt power handling capability supports a variety of networking, telecom and other sensitive electronic applications. Includes 6 protected outlets. Supports remote monitoring of UPS and site power conditions via built-in RS-232 enabled monitoring port, plus standard UPS monitoring via 2 built in contact closure ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in audible alarm and front panel LEDs indicate line power, battery power, battery charge level, load level, plus voltage regulation status. Network grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges. Attractive large gray tower housing. Two year warranty with $250,000 connected equipment insurance.

KEY BUYING POINTS

- SMART 2200NET line interactive UPS offers battery derived AC output during power outages, voltage regulation during brownouts and overvoltages, plus network-grade AC surge suppression
- 2200VA / 1700 watt power handling capability supports a variety of networking, telecom and other sensitive electronic devices
- Large internal batteries offer runtimes of 27 minutes at half load (1100VA / 850 watts) and 11 minutes at full load (2200VA / 1700 watts)
- Runtime is further expandable with optional external BP24V33 battery packs (output VA is derated as external battery packs are added, see specifications)
- Automatic Voltage Regulation (AVR) circuits maintain 120V nominal output over an input voltage range of 87-140V
- Includes 6 fully protected NEMA 5-15R outlets with 2 single outlet load banks that can be individually 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 of up to 3 directly connected devices through included DB9 contact closure and RS-232 enabled interfaces, or the monitoring of any number of additional servers over IP with included PowerAlert monitoring software
- In addition to the contact closure monitoring of on battery, low battery and power restored messaging, built-in RS-232 interface supports messaging of UPS and line power status, including AC line voltage, DC battery voltage and remaining battery capacity
- Supports activate self-test and UPS output power control for delayed or immediate reboot of connected equipment
- Diagnostic LEDs (indicate 17 performance conditions)
- UL (USA), cUL (Canada), NOM (Mexico), FCC Class A (Business) Listed
- $250,000 Ultimate Lifetime Insurance (USA & Canada Only)

TYPICAL APPLICATIONS

- Ideal for the protection of communication equipment including: routers, hubs, switches, IP-PBX, Traditional PBX and Key/Hybrid

Telephone Systems. Also ideal for the protection of data processing equipment such as fileservers, workstations and other sensitive devices requiring clean, continuously regulated output power. Extended runtimes are available using additional external battery packs (BP24V33).

OPTIONS & ACCESSORIES

- External battery pack: BP24V33
- Dataline protectors: DNET1, DTEL2, DCATV
- Circuit Tester: CT120
- Power Distribution: RS-1215, PDU1215
- Extended warranties: 3 Year WEXT3-2200-3000, 5 Year WEXT5-2200-3000

PACKAGE INCLUDES

- SMART 2200NET UPS System
- PowerAlert Software and three 6 foot network cables
- Warranty information
- Instruction manual

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:	Line interactive tower UPS protects internetworking and telecommunications equipment from blackouts, brownouts, overvoltages, surges and line noise. Maintains AC output during blackouts and continuously corrects brownouts and overvoltages from 87 to 140 volts back to normal 120V levels. Supports external battery packs for extended runtime. Includes 3 built-in DB9 serial ports, PowerAlert UPS monitoring software and two customized load management receptacles.
Voltage compatibility:	120V AC
Frequency compatibility:	60 Hz

OUTPUT

Output volt amp capacity (VA):	2200
Output watt capacity (watts):	1700
Output nominal voltage:	120V AC
Output voltage regulation:	LINE MODE: Sine wave line voltage 120V (-13% / +5%) BATTERY MODE: PWM sine wave output 120V +/-5%
Output frequency regulation:	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type:	6 NEMA 5-15R
Customized load management receptacles:	2 individually controlled single-outlet banks supports reboot of selected items and load shedding to increase battery runtime for the most critical of loads.
Overload protection:	Via 20A input breaker

INPUT

Maximum input amps:	15A, 1770 watts
Input connection type:	NEMA 5-15P
Input cord length:	8 ft., 12 gauge
Recommended electrical service:	20A 120V

BATTERY

Full load runtime:	11 minutes (2200VA)
Half load runtime:	27 minutes (1100VA)
Expandable battery runtime:	Supports extended runtime with optional BP24V33 external battery pack (multi-pack compatible). Capacity de-rates to 1600VA / 1280 watts with 1 external BP and 1250VA / 800 watts with 2 external BPs
DC system voltage:	24 V DC
Typical battery lifespan:	3-6 years, depending on usage
Battery recharge rate:	2-4 hours to 90%

VOLTAGE REGULATION

Voltage regulation description:	Line interactive UPS offers 2 boost levels of brownout correction and a single level of overvoltage adjustment to maintain usable, computer grade output without consuming battery power.
Overvoltage correction:	Input voltages between 127 and 140V AC are reduced by 12%
Direct pass through:	Input voltages between 110 and 127V AC are passed through unchanged
Brownout correction:	Input voltages between 95 and 105V AC are boosted by 10%
Severe brownout correction:	Input voltages between 87 and 94V AC are boosted by 22%

LEDS ALARMS & SWITCHES

Front panel LEDs:	Includes 5 front panel LEDs to indicate BATTERY CHARGE LEVEL, AC LINE POWER STATUS, VOLTAGE REGULATION STATUS, UPS LOAD LEVEL and BATTERY LOW / REPLACE information
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 on/standby power switch and one dual function "alarm cancel" / "self test" button, plus 1 rear panel system enable switch

SURGE / NOISE SUPPRESSION

AC surge suppression:	480 joules
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes

PHYSICAL

Shipping weight (lbs):	87
Shipping weight (kg):	39.5
Unit weight (lbs):	80
Unit weight (kg):	36.3
Unit Dimensions (HWD/in):	17 x 9 x 12.5
Unit Dimensions (HWD/cm):	41.9 x 22.9 x 31.1
Shipping Dimensions (HWD/in):	22.25 x 12.75 x 16.5
Shipping Dimensions (HWD/cm):	57.2 x 32.4 x 42
Material of construction:	Polycarbonate
Form factors supported:	Tower
Cooling method:	Convection

ENVIRONMENTAL

Operating Temperature:	+32 to +104 degrees Fahrenheit 0 to +40 degrees Celsius
Storage Temperature:	+5 to +122 degrees Fahrenheit -15 to +50 degrees Celsius

Relative Humidity:	0 to 95%, non-condensing
Line mode BTU/hr. (Max.):	148.2
Battery mode BTU/hr. (Max.):	502.6

COMMUNICATIONS

Network monitoring port:	Includes 3 built-in DB9 monitoring ports, 1 enabled with RS-232 data communications and 2 with standard contact closure communications. All interfaces support on battery, low battery and power restored messaging. RS-232 enabled port adds data regarding AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status messaging. Supports individual reboot of selected items connected to load management receptacles and load shedding to increase battery runtime for the most critical loads.
Software and cabling included:	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems.

LINE / BATTERY TRANSFER

Transfer time from line power to battery mode:	2-4 milliseconds
Low voltage transfer to battery power:	Switches to battery power as line voltage decreases to 87 volts or less
High voltage transfer to battery power:	Switches to battery power as line voltage increases to 140 volts or higher.

CERTIFICATIONS

Certifications:	UL1778 (USA), cUL (Canada), FCC Class A (emissions), NOM (Mexico)

WARRANTY

Optional coverage:	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information
Product warranty:	2 year product warranty
Connected equipment insurance (USA and Canada Only):	$250,000 connected equipment insurance (USA / Canada only)

SPECIAL FEATURES

Appearance:	Attractive gray tower UPS

BATTERY PACK ACCESSORY (optional)

Battery Pack Accessory (optional):	BP24V33

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.

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