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Model #: SMART2200NET

Smart Pro UPS System - Intelligent, line-interactive battery backup for network and telecommunications System



Highlights

- 2200VA / 2.2kVA line interactive, extended-run tower UPS
- Maintains 120V nominal output over an input range of 87 to 140V
- Network communications supported via 3 DB9 ports (1 serial / 2 contact closure)
- Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R (120V)
- 2 year product warranty / \$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 BP24V28-2U (limit 1) and BP24V70-3U 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. Two year warranty with \$250,000 [connected equipment insurance](#).

Package Includes

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

Features

- 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 BP24V28-2U (limit 1) and BP24V70-3U (multi-pack compatible) 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)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1700
Output kW capacity	1.7
Output power factor	0.8
Output Capacity Details	Output capacity de-rates to 1280w with one external battery pack and 800w with two or more external battery packs connected
Nominal Output Voltage(s) Supported	120v
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-13% / +5%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	6 5-15R outlet(s)
Built-in controllable switched load banks	Two switchable single outlet 5-15R load banks
Basic PDU options	PDU1215 (1U / 13 5-15R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDU1415 (0U / 14 5-15R outlets); PDUV15 (0U / 12 5-15R outlets)
Metered PDU options	PDUMH15 (1U / 13 5-15R outlets); PDUMH15AT (1U / 8 5-15R outlets)*; PDUMV15 (0U / 16 5-15R outlets)
Switched PDU options	PDUMH15ATNET (1U / 8 5-15R outlets)*; PDUMV15NET (0U / 16 5-15R outlets)
External PDU redundancy options	*Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	PWM sine wave
INPUT	
Rated input current (at maximum load)	15A

Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-15P
Input circuit breaker	20A
UPS Input cord length (ft.)	8
UPS Input cord length (m)	2.4
Recommended Electrical Service	20A 120V
Input cord length (ft.)	8
Input cord length (m)	2.4
BATTERY	
Full load runtime (minutes)	11 min. (1700w)
Half load runtime (minutes)	27 min. (850w)
Expandable battery runtime	Extended runtime supported via optional external battery packs; output capacity de-ratings apply
External battery pack compatibility	BP24V28-2U (limit 1); BP24V70-3U (multi-pack compatible)
DC system voltage	24V DC
Battery recharge rate (included batteries)	Less than 9 hours from 10% to 90%
VOLTAGE REGULATION	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 87 to 140
Overvoltage correction	Input voltages between 127 and 140 are reduced by 12%
Undervoltage correction	Input voltages between 95 and 105 are boosted by 10%
Severe undervoltage correction	Input voltages between 87 and 94 are boosted by 22%
LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; set of 4 rear-panel switches control system enable and contact closure port inverter shutoff commands
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	480
UPS AC suppression response time	Instantaneous

EMI / RFI AC noise suppression	Yes
AC suppression joule rating	480
AC suppression response time	Instantaneous
PHYSICAL	
Installation form factors supported with included accessories	Tower
Primary form factor	Tower
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	17 x 9 x 12.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	43.2 x 22.9 x 31.8
UPS / Power Module weight (lbs)	80
UPS / Power Module weight (kg)	36.3
UPS Shipping dimensions (height x width x depth / inches)	22.2 x 12.8 x 16.5
UPS Shipping dimensions (height x width x depth / cm)	56.5 x 32.4 x 41.9
Shipping weight (lbs)	87
Shipping weight (kg)	39.5
UPS housing material	Polycarbonate
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 BTU / hr. (full load)	58.4
Battery mode BTU / hr. (full load)	863.7
COMMUNICATIONS	
Communications interface	DB9 Serial; Contact closure
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions; contact closure communications via two additional DB9 ports (3 total)
PowerAlert software	Included

Communications cable	3 DB9 cables included
LINE / BATTERY TRANSFER	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	87
High voltage transfer to battery power (setpoint)	140
SPECIAL FEATURES	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
Green & high efficiency features	Greater than 95% efficiency - GREEN UPS (logo); Individually controllable load banks; Line interactive UPS with severe brownout and overvoltage correction
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ROHS (Reduction of Hazardous Substances)
WARRANTY	
Standard warranty period	2 years
Connected equipment insurance (USA, Canada, Puerto Rico)	\$250,000 connected equipment insurance

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
External Battery Packs	BP24V28-2U	External Battery Pack for UPS System (limit 1)	-
External Battery Packs	BP24V70-3U	External Battery Pack for UPS System (multi-pack compatible)	-
Surge Protectors	DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	-
Surge Protectors	DNET1	Network Surge Suppressor - Essential protection for data and communication lines	-
Surge Protectors	DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	-
Power Distribution	PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	-
Power Distribution	RS-1215	Tripp Lite Power Strip - Multiple outlets wherever you need them	-
Extended Warranties	WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	-
Extended Warranties	WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=40.