SmartPro 120V 2.2kVA 1.7kW Line-Interactive UPS, Tower, Extended run, 3 DB9 ports

MODEL NUMBER: **SMART2200NET**





Highlights

- 2.2kVA / 2200VA line interactive, extended-run tower UPS
- 120V output, Corrects brownouts and overvoltages from 87V to 140V
- 3 DB9 communication ports (1 RS232 / 2 contact-closure)
- Front panel status LEDs with load and battery capacity display
- 2 independently switchable output load banks
- NEMA 5-15P input, 6 NEMA 5-15R outlets

Package Includes

- SMART2200NET UPS System
- Three 6ft network cables
- Instruction manual

Description

SMART2200NET 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/1700W power handling capability supports a variety of networking, telecom and other sensitive electronic applications. Includes six protected outlets. Supports remote monitoring of UPS and site power conditions via built-in RS-232 enabled monitoring port, plus standard UPS monitoring via two built-in contact closure ports. PowerAlert® UPS monitoring and unattended shutdown software is available via free download. 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.

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
- Intelligent battery management system extends battery life
- 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
- DB9 ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Offers simultaneous monitoring of up to 3 directly connected devices through included DB9 contact closure and RS-232 enabled interfaces
- 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)

Specifications

OVERVIEW	
UPC Code	037332032041
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	15A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-15P
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	15
Input Cord Length (ft.)	8
Input Cord Length (m)	2.44
OUTPUT	
Output Capacity (VA)	2200
Output Capacity (kVA)	2.2
Output Capacity (Watts)	1700
Output Capacity (kW)	1.7
Output Capacity Details	Output is reduced to 1200W maximum with 1-2 external battery packs and 800W maximum with 3 or more external battery packs
Power Factor	0.8
Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	-13% / +5%
Output Voltage Regulation (Battery Mode)	+/- 5%
Load Management Receptacles	Two switchable single 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	(6) 5-15R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	11 min. (1700W)
Runtime Half Load (min.)	27 min. (850W)
Expandable Runtime	Yes
External Battery Pack Compatibility	BP24V28-2U (limit 1); BP24V70-3U (multi-pack compatible)
DC System Voltage (VDC)	24
Battery Recharge Rate (Included Batteries)	Less than 9 hours from 10% to 90% (typical, full load discharge)
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%
USER INTERFACE, ALERTS & CONTROLS	
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
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 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	720
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Tower
Rack Height	0U
Primary UPS Depth (mm)	318

Primary UPS Height (mm)	432
Primary UPS Width (mm)	229
Shipping Dimensions (hwd / in.)	13.75 x 16.50 x 22.50
Shipping Dimensions (hwd / cm)	34.92 x 41.91 x 57.15
Shipping Weight (lbs.)	82.16
Shipping Weight (kg)	37.27
UPS Housing Material	Polycarbonate
UPS Power Module Dimensions (hwd, cm)	43.18 x 22.86 x 31.75
UPS Power Module Dimensions (hwd, in.)	17 x 9 x 12.5
UPS Power Module Weight (kg)	36.29
UPS Power Module Weight (lbs.)	80
Unit Dimensions (hwd / in.)	17.000 x 9.000 x 12.500
Unit Weight (lbs.)	80.0000
Unit Weight (kg)	36.29
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 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	59
AC Mode Efficiency Rating (100% Load)	99%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	867
COMMUNICATIONS	
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	For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert
Communications Cable	3 DB9 cables included
Network Management Card Description	Network management not supported
Communications Interface	Contact closure; DB9 Serial
LINE / BATTERY TRANSFER	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	87

High Voltage Transfer to Battery Power (Setpoint)	140
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	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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