MINUTEMAN® Power Technologies
From Para Systems, Inc.

SmartSine™ Line Interactive UPS
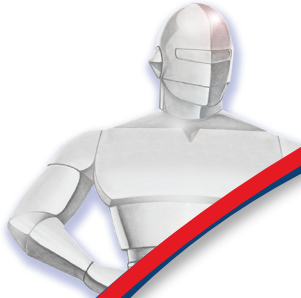# True sine wave Uninterruptible Power Supply

S 700 - 700VA/500W • S 1000 - 1000VA/700W
S 1400 - 1400VA/1000W • S 2000 - 2000VA/1400W

S 2000 SmartSine Line interactive true sine wave UPS

Designed for

- **Networking/communication systems**
- **Computer workstations and servers**
- **Power sensitive electronics**
- **Security and access control systems**

Features

- **True sine wave output**
- **Line-interactive topology**
- **700, 1000, 1400 and 2000 VA units**
- **Eight receptacles on each unit**
- **Independent Battery Bypass™**
- **Phone/fax/modem/network protection**
- **Expansion lot for accessory options including multi-function web/SNMP-32L card and environmental monitoring device kit**
- **Includes SentryII™ power management and diagnostic software**
- **Three-year warranty**
- **$40,000 Minuteman Platinum Protection Plan® (Domestic U. S. A. and Canada)**

ADVANCED FEATURES AT AN AFFORDABLE PRICE

The SmartSine™ line interactive UPS series maintains today's vital equipment despite utility power fluctuations and/or failures. Each unit provides a line interactive design with true sine wave output, a rich feature set, and a lower price than competitive models. In addition, its powerful voltage regulators stabilize and condition input AC power anomalies providing today's sensitive electronic equipment with clean AC power. With unique Independent Battery Bypass™ technology, the SmartSine™ UPS will continue to correct and condition incoming AC power without shutting down output power to your equipment even if the UPS batteries become discharged or disconnected.

POWER MANAGEMENT SOFTWARE PROVIDED AT NO ADDITIONAL COST

Each SmartSine™ UPS includes a serial communications cable and a CD with web browser-based SentryII™ power management and shutdown software. This allows you to shut down the connected computer as well as an unlimited number of servers or workstations on the same network, including those using different operating systems or third-party UPS devices. SentryII™ software is compatible with most popular operating systems. *(See reverse side for complete list).*

EXPANSION SLOT PROVIDES ADDED FEATURE

Each SmartSine™ UPS includes a built-in expansion slot for optional accessories like the SNMP-32L card that allows monitoring and management of the UPS via web browser or standard NMS system, Its environmental monitoring device kit allows monitoring temperature/humidity conditions via the UPS through a browser, and the multi-RS-232 port card that allows one SmartSine™ UPS to send a shutdown command to three different computers when using the standard SentryII™ software.
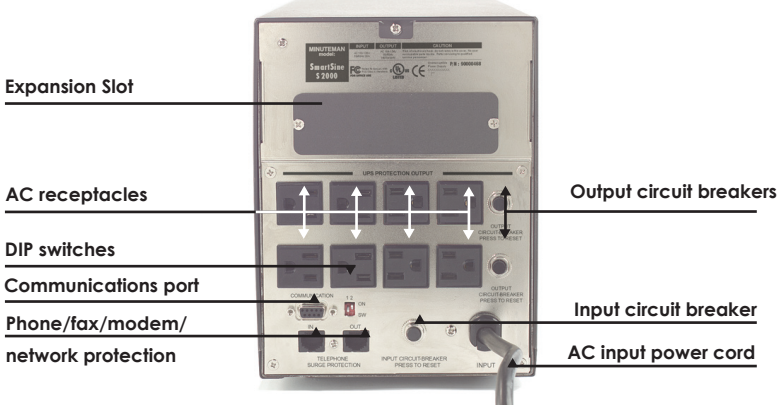
PROTECT YOUR INVESTMENT

Para Systems offers a free, three-year parts and labor warranty — other UPS manufacturers charge extra for an extended year's warranty beyond the industry-standard two years. In Domestic U. S. A. and Canada, the Minuteman Platinum Protection Plan® protects your valuable equipment with up to $40,000 equipment insurance, providing your equipment has been properly connected to the SmartSine™ UPS in accordance with your user's manual instructions.

Minuteman® SmartSine™ Line Interactive UPS Specifications

SPECIFICATION	S 700	S 1000	S 1400	S 2000
Maximum load VA/Watts	700/500	1000/700	1400/1000	2000/1400
Battery type - Spill proof, maintenance free	(2) 12VDC 7AH	(2) 12VDC 12AH	(2) 12VDC 17 AH	
Backup receptacles	8 NEMA 5-15R standard			
Input line	NEMA 5-15P plug with 6 ft. cord			NEMA 5-20P plug with 6 ft. cord
Acceptable input voltage	0-165VAC			
Selectable on-battery output voltages	110/120/127 VAC			
Output voltage (AC Mode)	110/120VAC Setting = 104-130VAC • 127VAC Setting = 104-134VAC			
Nominal input frequency	50/60 Hz ± 6 Hz			
Input protection • Transfer time	Resettable circuit breaker • 2-6 ms typical			
On-battery waveshape	True sine wave			
Protection	Overcurrent and short circuit protected latching shutdown on overload			
Surge energy rating (one time, 10/1000ms waveform)	500J			
Surge response time	0 ns (instantaneous) normal mode < 1 ns common mode			
Noise filter	Normal and common mode EMI/RFI			
Typical battery life	3-6 years, depending on the number of discharge cycles and ambient temperatures			
Typical recharge time	8 hours from total discharge			
10 base-T surge let-through	<5%			
Phone line surge protection let-through	<1%			
Operating temperature • Storage temperature	32 to 104° F (0 to 40° C) • 5 to 113° F (-15 to 45° C)			
Electromagnetic immunity	IEC 801-2 level IV, 801-4 level IV, 801-5 level III			
Audible noise at 3 ft. (1 m)	<45 dBA			
Safety and approvals	cUL (UL 1778, CSA 22.1), CE,			
EMC verification	S 700/S 1000 Class B, S 1400/S 2000 Class A, EN55022, EN50091-1, EN50091-2, EN60555-2, EN61000-3, normal and common mode EMI/RFI suppression 100kHz to 10 mHz			
Sentry II™ power management software* *Trade marks and registered products listed herein are the property of their respoective companies.	Serial cable and software CD included (Microsoft Windows 95/98/ME/XP, Microsoft Windows NT 4.0 (SP6 recommended). Microsoft Windows 2000, Novell Netware 4.11 and 5.1. Red Hat Linux version 6.12 and 7.1. SCO UnixWare Version 7.1.1. SCO Open Server Version 5.06 (HP-UX version 11. IBM AIX version 4, other Unix/Linus systems)			
Net dimensions H x W x D	8.9 x 6.5 x 17.8 in (226 x 165 x 452 mm)			
Net weight • Shipping weight	38.6 lb • 42.0 lb (17.5 kg • 19.0 kg)	46.3 lb • 50.0 lb (21.0 kg • 22.7 kg)	61.7 lb • 65.0 lb (28.0 kg • 29.5 kg)	67.2 lb• 71.0 lb (30.5 kg • 32.2 kg)

SmartSine™ S 2000 Back View

Expansion Slot

AC receptacles

DIP switches

Communications port

Phone/fax/modem/ network protection

Output circuit breakers

Input circuit breaker

AC input power cord

Accessory Cards for Expansion Slot

The SNMP-32L Computer Interface Card allows browser or standard SNMP management.

The multi-RS-232 ports card allows simultaneous shutdown of up to 3 computers.

Environmental monitoring device allows temp/humidity monitoring.

The contact closure card allows control of special devices such as AS/400 systems.

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