

# MINUTEMAN® Enterprise™ 1U Series



## ENTERPRISE 1U FEATURES:

**Designed specifically for the protection of network components in rackmount environments**

- Switches
- Servers
- Hubs/Routers
- Data Processing Equipment
- Computers
- Telephone Systems

**Built-In AVR (Automatic Voltage Regulator) functions with buck and boost features to stabilize output voltage protecting equipment from sags and surges, saving batteries for blackout situations**

**Independent Battery Bypass™ allows the UPS to provide voltage regulation with spike and surge protection on utility AC power even when the batteries are weak or dead**

**Integrated USB and RS232 communication with simultaneous function for software control (USB and RS232 Cables are Included)**

**Two independently controllable output segments for removing non-critical loads during extended blackouts**

**(12) Front panel LEDs for diagnostics and to display connected loads and monitor battery capacities**

**Includes MINUTEMAN Sentry Business™ power management and diagnostic software to provide added control and allow unattended PC shutdown, including load-shedding of non-critical equipment from remote locations (for use on individual PCs or multiple workstations on networks)**

### **More features in less rack space**

MINUTEMAN's new Enterprise 1U rackmount design incorporates sophisticated UPS features into a unique and compact rackmount format available in **700, 1000, and 1500 VA sizes** to cover a wide range of power requirements. As network installations demand more and more real estate in the rack, it is important to provide reliable UPS power without reducing available rack space. With its true sine wave output, the Enterprise 1U provides high-quality AC power, protecting today's sensitive network equipment. Additionally, MINUTEMAN has integrated true buck and boost voltage regulation to indefinitely stabilize output power, even during extreme sag or surge conditions. Add to that, the Enterprise 1U provides sophisticated communication features using USB and RS232, or optional SNMP interfaces. MINUTEMAN's unique Independent Battery Bypass™ design, along with load-shedding, and front panel diagnostics make this the best-valued 1U rackmount product available.

### **Power management software allows total control**

The new Enterprise 1U models are the first MINUTEMAN products to include simultaneous use of USB and RS232 communications, with both ports integrated into the back panel of the UPS. Both ports may be used to interface with the branded MINUTEMAN Sentry Business™ power management software. This software provides full diagnostic capabilities, as well as the ability to automatically shutdown connected equipment. With MINUTEMAN's load-shedding technology, it is now possible to shutdown non-critical equipment connected to the UPS in order to extend the runtime of critical network components during extended blackout conditions. MINUTEMAN also provides full SNMP capabilities through an optional internal SNMP card slot, which makes the UPS an addressable device on the network.

### **Unparalleled warranty offers peace of mind**

MINUTEMAN offers a free, three-year parts and labor warranty - STANDARD! Other UPS manufacturers charge extra for an extended year's warranty beyond the industry-standard two years. Plus, in the U.S. and Canada, the MINUTEMAN Platinum Protection Plan® protects your valuable equipment with up to \$40,000 in equipment insurance, provided your equipment has been properly connected to the UPS in accordance with your User's Manual instructions.

# MINUTEMAN<sup>®</sup> Enterprise<sup>™</sup> 1U Series Specifications

Specification	E700RM1U	E1000RM1U	E1500RM1U
Maximum Load - VA / Watts	700 / 490	1000 / 700	1500 / 900
Topology	Line-Interactive		
Type	Rackmount		
Agency Approvals	UL1778, CSA 22.2 no. 107.1, CE, FCC Class A		
Warranty	3-year parts and labor		
Equipment Protection Policy	Up to \$40,000		
Battery-Backup / Surge-Protected Outlets	6 NEMA 5-15R Type		
Input (non-battery operation)			
Voltage Range Default	85V to 150V		
Frequency Range	50/60Hz, auto-sensing $\pm$ 6Hz		
Input Protection	Resettable circuit breaker		
Surge Protection	800 joules		
Output (non-battery operation)			
Voltage 120V Default (127V User Selectable)	105V to 130V (105V to 137V)		
Frequency	50/60Hz $\pm$ 6Hz		
Waveform	Sine wave		
Efficiency (AC-AC)	>93% at full load		
Output (battery operation)			
Voltage	Default 120V, adjustable 127V*		
Voltage Regulation	Nominal $\pm$ 2% until low battery warning		
Frequency	$\pm$ 0.1Hz unless synchronized to line		
Waveform	True sine wave		
Typical Transfer Time	2-6ms		
Dynamic Response	$\pm$ 5% at 100% load change in 100ms		
Harmonic Distortion (Voltage T.H.D.)	<5% at full rated linear load	<8% at full rated linear load	
Battery System			
Hot Swappable Battery	Yes		
Internal Battery	Yes		
Number-Type of Batteries	4-6V9AH		
Battery System	24VDC		
Typical Recharge	8 hours from total discharge		
Physical			
Net Dimensions H x W x D (inches / mm)	1.75 x 17.0 x 24.0 / 44.5 x 432.0 x 610.0		
Net Weight (lbs. / kg)	42.3 / 19.2	51.2 / 23.2	
Shipping Dimensions H x W x D (inches / mm)	5.2 x 20.9 x 27.6 / 132.0 x 531.0 x 701.0		
Shipping Weight (lbs. / kg)	52.0 / 23.6	61.0 / 27.7	

\*User may adjust inverter output voltage via dip switches on the rear panel.

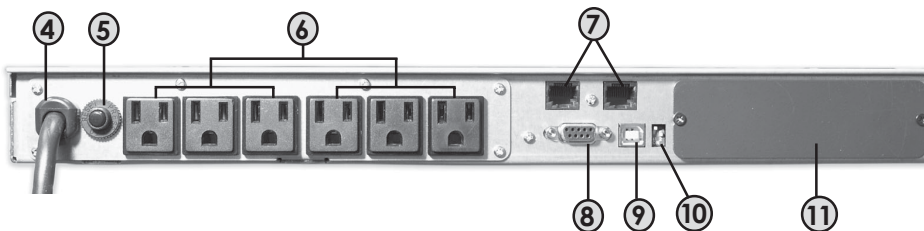
## Front Panel



## Product Overview

- 1) **Status Indicators**  
(AC Normal, On-Battery, Boost, Buck, Fault, Weak/Bad Battery, Site Wiring Fault)
- 2) **Load Level/Battery Capacity Meter**
- 3) **On/Off/Self-Test Button**
- 4) **AC Input Power Cord**
- 5) **AC Input Circuit Breaker**
- 6) **2 Independently-Wired Segments with 3 Outlets Each to Allow Load-Shedding**
- 7) **RJ45 / RJ11 Network/Modem/Fax Protection**
- 8) **RS232 Communication Port**
- 9) **USB Communication Port**
- 10) **Inverter Output Voltage Dip Switches**
- 11) **Expansion Slot for Optional Card**

## Rear Panel



**SizeMyUPS.com**

Need quick answers to your UPS questions? Visit our interactive UPS selection guide on the Web to find the right product for your needs *fast*.



MINUTEMAN UPS / Para Systems, Inc.  
1455 LeMay Drive, Carrollton, TX 75007  
Phone 800.238.7272 +1 972.446.7363 Fax +1 972.446.9011



© Copyright 2005, Para Systems, Inc. Product specifications are subject to change without notice. MINUTEMAN and MINUTEMAN Platinum Protection Plan are registered trademarks and MINUTEMAN Enterprise, Independent Battery Bypass, and MINUTEMAN Sentry Business are trademarks of Para Systems, Inc. All other trademarks are the property of their respective holders.

PN-34000264 - 7-05