

Your Partner in Power Protection



About Minuteman

Who we are

For over 30 years, Minuteman Power Technologies has partnered with businesses of all sizes to provide high quality, reliable power protection solutions. Minuteman strives to provide solutions for crucial systems that require constant power protection, as well as a full range of support products to facilitate the management of those systems.

Headquartered in Carrollton, Texas, Minuteman Power spans throughout two continents, engaging a variety of countries. Minuteman specializes in seven specified markets: Government, Education, Point-of-sale/Hospitality, Small to Medium Businesses, Value Added Resellers, Telecom, and Security. Since its creation in 1982, the Minuteman brand has been synonymous with quality solutions; our products are designed to provide exceptional value, in terms of performance, reliability, and price. See for yourself why Minuteman is your partner in power protection.



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1-3kVA True online systems for critical applications	Protect non-critical devices from damaging surges and spikes



MinutemanUPS.com Visit our website to learn even more about Minuteman!

- Full product specifications
- Software Downloads
- Online Training and Videos
- Authorized Dealers and Resellers
- Tech Support and Power FAQs
- UPS Sizing and Configuration

Benefits of Power Protection

Why should you protect your equipment?

Power anomalies are a fact of life, and account for 37% of business disruption according to a study by Frost and Sullivan. Some sort of power problem has affected us all, whether it has been a power outage that caused an interruption of productivity, or equipment and data files that have sustained damage.

The cost associated with repair or replacement of equipment or recovery of corrupted data files can be substantial no matter the size of your organization. Power protection devices pay for themselves the first time a power problem occurs in many cases.

3-Phase Uninterruptible Power Supplies

3-phase systems use double conversion technology to provide high-efficiency backup protection for large loads. Minuteman's product lines cover 10-750kVA, and are found in small to medium sized businesses, industrial machinery applications, and more.

- Greatly increased energy efficiency vs. multiple smaller units allows for lower operating costs
- Parallel capability for redundancy ensures reliable power in all situations

Uninterruptible Power Supplies

The full line of Minuteman uninterruptible power supply solutions provide maximum protection to shield your equipment from catastrophic damage while also providing battery backup during power outages.

- Complete protection from all power problems
- Provides backup power during outages and brownouts
- Three types: Standby, Line Interactive, Online

Power Management / Distribution

Power is nothing without control. Minuteman's power management and distribution products put a range of capabilities in technician and administrator hands to ensure efficient operations. Remote Power Managers (RPMs) offer the ability to control power to devices from anywhere that an internet connection is available, while Power Distribution Units (PDUs) allow safe and organized means of delivering power to each device that requires it.

- RPMs allow users to control power from anywhere; eliminates the need to perform service calls to reboot locked devices and reduces costs and downtime
- Organize and safely distribute power in racks and closets with PDUs

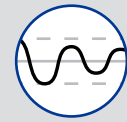
Surge Suppressors

If you are seeking basic power protection to prevent spikes and surges from causing catastrophic damage to circuit boards, power supplies, and other internal components, Minuteman has a diverse line of surge suppressors to meet your needs.

- Cost-effective protection for peripherals, printers, and other equipment which will not be required during a power event
- Safely and efficiently deliver power to multiple devices

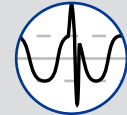
The Problems with Power

What can go wrong with utility power?



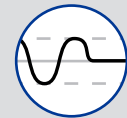
Brownout / Voltage Sag

Decrease in voltage can cause data loss due to unintended restarts, hardware damage, and shortened equipment life span



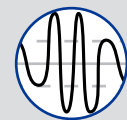
Spike / Transient

Sharp increase in voltage as high as 600V can cause catastrophic damage to hardware



Blackout

Total loss of power can cause data loss and file corruption, total loss of systems for sustained periods



Power Surge

Sudden increase in voltage can damage electronics, corrupt vital data, and shorten equipment life span

Applications and Industries *Our products are designed to protect critical equipment throughout the business*



Communications

- **Telephone Systems**
Large or small, all telephone systems require power to stay connected
- **VoIP Hardware**
Handsets and other accessories must be backed up
- **Network Devices**
Unified communications means all devices on the network are depended on for connectivity



Security

- **Access Control / Intrusion**
Facility security begins at access points; reliable backup is a must
- **DVR / NVR / Camera**
Recording devices must remain on during emergencies to protect life and property
- **Fire and Emergency Communications**
Lengthy backup is required for these vital systems



IT/Network

- **Server / Network Storage Devices**
Critical data can be put in harm's way without proper protection
- **Network Hardware**
100% uptime is expected, connectivity is critical
- **Workstations**
Data loss at the employee level can be tremendous if not properly protected



Government

- **State and Local**
Services must remain available in emergencies
- **Federal**
Extensive experience in large federal agencies



Education

- **Primary / Secondary**
From campus safety to IT, schools depend on power
- **Higher Education**
Power is critical on campus - Minuteman understands



Point-of-Sale / Hospitality

- **POS Cash Registers / Terminals**
Sales require power to be processed
- **Hotels and Casinos**
Communications and guest security are paramount

Power Terminology

Understanding these key terms is a critical step in determining the proper power protection devices for any type of system.

Alternating Current (AC)

The form in which power is delivered from utility sources; electrical charge periodically reverses direction, and is delivered in a true sine wave form

Amperes (Amps)

Measure of the amount of electric charge, or current; equivalent to the number of lanes on the roadway cars are traveling on

Direct Current (DC)

The form of power typically provided by batteries and transformer blocks for small equipment; electrical charge is unidirectional

Frequency (Hz)

Measure of the power cycles in AC current in Hertz (typically 50 or 60); equivalent to the speed of the cars traveling on a roadway

Measured Load

Electrical load as determined by physically placing a true RMS power meter on the input cord of a device to determine its actual power draw

Rated Load

Electrical load as stated in the specifications documentation of a device (typically a maximum value that the device will use during operation)

Volt / Voltage (V)

Measure of electrical potential between two points; equivalent to the number of cars traveling on a roadway

Volt Amps (VA)

Measurement of apparent power, and the measurement used to determine UPS capacity

Watt (W)

Unit of power representing actual power consumption over a given amount of time

Product Features

On each product page in this catalog, you will find feature listings. Refer to this page for in-depth explanations of all features.



208 / 220 / 230 / 240V Models

Units are available in both standard 120V and industry standard high voltage configurations for larger loads (look for model designations)



3-phase

Provides 3-phase power for efficient backup of extremely large loads; typically 10kVA up to 750kVA



Automatic Notification

Software included can provide notification of user-configurable parameters via a range of options including Email, SMS text message, or SNMP trap



Automatic Voltage Regulation (Line Interactive UPS)

A buck/boost transformer is utilized to regulate voltage, saving battery capacity for use during full power outages and providing longer runtime and battery life



Double Conversion (Online UPS)

Incoming utility power is converted from AC to DC then back AC, eliminating all possible power problems; ideal for critical applications



Emergency Power Off Port (EPO)

Dedicated port that allows users to instantly shut down the UPS in the event of an emergency such as fire, flood, or other dangerous situation



ENERGY STAR® Certified

UPS meets ENERGY STAR requirements for energy efficiency, ensuring lower utility costs to the user



Environmental Monitoring

Environmental probe is available; allows monitoring of temperature, humidity, and provides configurable alarms via network communications interface



Extended Runtime Capability

Unit features a connection for XL and EXL external battery packs which provide greatly increased backup runtimes



Extreme Environment Capable

Unit features high temperature batteries, durable coatings, and other features to allow installation in extreme environments (see manual for details)



Independent Battery Bypass

Unit will pass power through to attached equipment regardless of battery status; equipment will remain on while suitable utility power is present if batteries fail



Independent Battery Chargers

XL Battery Packs feature a dedicated on-board charger, considerably reducing recharge time after an outage versus units without this feature



LCD Status Display

Front-mounted LCD screen displays unit and power status, estimated runtime remaining, and other critical power metrics



LED Status Display

Front-mounted panel features LED lights to communicate unit, power, and battery status



Load-shedding Capability

Addressable receptacle banks allow prioritizing of the attached load, extending uptime for the most critical devices



Mobile Accessible

Software interface accessible from any standard web browser, including mobile devices



Parallel Installation Capable

Multiple units can be installed and linked in parallel for either added system capacity or (N+1) redundancy



RoHS / RoHS 2 Compliant

Product manufactured in accordance with the European Union directive for the Reduction of Hazardous Substances in order to protect the environment



SentryHD / SentryPlus™ Software

Monitoring and management software included with all Minuteman UPS systems (excludes EnTerra and CPE products)



Simulated Sine Wave Output

On-battery output waveform is a 'stepped' approximation of the sine wave generated by utility power



SNMP Option Slot

Unit features a slot for optional Simple Network Management Protocol communications cards that allow monitoring and management via network



Standby UPS

Most basic and inexpensive type of UPS hardware; utilizes battery power to resolve power issues



True Sine Wave Output

Output waveform closely mimics pure utility power to reduce heat buildup; ideal for sensitive information technology, industrial, and laboratory equipment



Wall-mountable

Unit features standard or optional hardware for mounting upright against a wall or other flat surface



Warranty Terms

Standard UPS warranties cover parts and labor for 3 years, batteries for 2 or 3 years; Limited Lifetime on Surge Protectors, PDUs, and other accessories



X3 MOV Technology

Advanced surge protection hardware dissipates heat more effectively, preventing potential fire during severe power surges and spikes

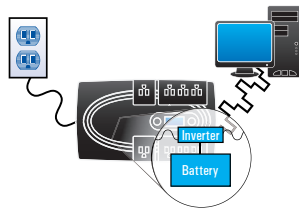
UPS Types

Which system is right for your equipment? Learn the differences and get the right hardware for your needs.



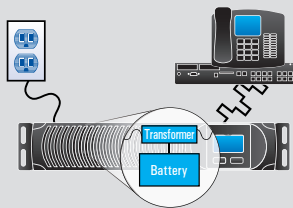
Standby (Good)

- **Cost-effective Small Load Protection**
Conditions power by reverting to battery during power problems; most basic UPS architecture
- **Workstation and Peripheral Protection**
Ideal for individual devices, including PCs, network peripherals, security devices, and more
- **Compact Form Factor**
Small size perfect for cramped installations



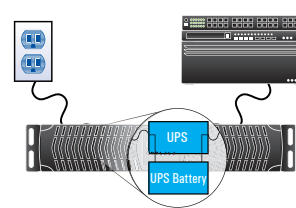
Line Interactive / AVR (Better)

- **Automatic Voltage Regulator (AVR)**
Provides boost and buck voltage regulation, allowing full battery capacity to be available for outages
- **Longer Battery Life and Runtimes**
AVR hardware manages battery more effectively than standby units
- **Available True Sine Wave Output**
Economical protection for sensitive equipment on select models



Online / Double Conversion (Best)

- **Ultimate Critical System Protection**
Internal inverter converts power from AC-DC-AC, providing the highest level of power conditioning
- **Zero Transfer Time to Battery**
No delay when power goes out; suitable for industrial and laboratory equipment
- **Single and 3-phase Applications**
Multiple lines available for large load systems



UPS Sizing and Selection *What factors determine the proper UPS?*



Considerations to help determine your UPS needs

- 1 What type of equipment is being backed up?
- 2 What are the power requirements?
- 3 Where is the unit being installed?
- 4 How much backup time is required?
- 5 What are the input and output wiring configurations?



SizeMyUPS.com - UPS sizing made easy

Minuteman's SizeMyUPS.com was the industry's first user-friendly UPS selection guide. An extensive database of equipment, easy-to-navigate controls, and convenient specifications sheets make it the go-to for both experts and newcomers to the power field.

- 1 **Equipment Databases**
Build your system using our extensive database of equipment load ratings
- 2 **Configuration Options**
Narrow your choices to your exact needs with the straightforward configuration interface
- 3 **Comprehensive solutions**
Browse a complete list of solutions that meet your needs with estimated runtime and MSRP
- 4 **Email, Fax, and Print Spec Sheets**
Send your solutions to interested parties with a single click

Model	Runtime (H)	Product Line	UPS Type	(MSRP)
700VA-420W-12V	4.7	Endura Series	Standby (N)	\$79.00
700VA-420W-12V	9.3	Endura Series	Line Interactive (N)	\$109.00
700VA-420W-12V	9.3	Endura Series	Standby (N)	\$109.00
700VA-420W-12V	9.3	PRO-LCD Series	Line Interactive (N)	\$109.00
700VA-420W-12V	12.1	Endura Series	Standby (N)	\$119.00
700VA-420W-12V	15.0	Endura Series	Line Interactive (N)	\$159.00

Minuteman Standard & Extended Warranty Plans

Uninterruptible Power Supplies (UPS)

Minuteman provides three years of coverage on most UPS products (see individual product pages for details).

Minuteman's 3-year UPS¹ warranties include non-prorated battery coverage; if a battery failure occurs during the warranty period, the customer will not be charged a prorated cost for replacements.

Surge Protection/Power Management

Limited Lifetime warranties are provided on most MMS Series surge protectors and OEPD power distribution units.

All RPM Series products include a 3-year parts and labor warranty.

Extended Warranty Options

Two levels of five-year warranties are also available for most UPS products, including the Premier Zero-ownership cost option which includes automatic battery replacement.



Learn more about both plans at:
minutemanups.com/extendedwarranty

¹EnTerra, Entrust, and EnSpire Series warranties vary; see specific product pages for more details

EnTerra 10-40kVA Series

3-phase True Online Double Conversion Tower

Power dependency has increased dramatically in recent years with movement of more business functions online. Minuteman's 3-phase solutions, the EnTerra Series of double conversion online UPSs, build on our experience with allegiance-based 3-phase UPS products. The EnTerra Series, ranging from 10kVA – 40kVA, offers users flexibility, reliability, and stability at a value expected from the Minuteman name.

Every EnTerra 3-phase UPS is custom built to order, ensuring users the highest quality solution for their application.



Key Product Line Features



3-phase

High-efficiency large load backup



True Sine Wave Output

Suitable for sensitive equipment



Parallel Install Capable

Multiple units for capacity or redundancy



Standard 2-yr Warranty

Unmatched peace of mind



Extended Runtime Capable

Protect against extended outages



LCD Status Display/Control Panel

Real-time monitoring and control



208Y / 120V & 220Y / 127V

Unmatched installation versatility

Applications



Communications

Large phone/VOIP systems



Security

Facility-wide system backup



IT/Network

Data center servers, networks

Capacity:

Sm Med Lrg

Everything You Need *EnTerra's standard features have you covered*

EnTerra makes 3-phase easy with a host of included standard features that eliminate add-on purchase headaches:

- 1 Startup 5x8 (U.S. & Canada Only)**
All units include startup services by authorized technicians to ensure safe and proper installation of the system
- 2 Internal Bypass**
No extra modules to purchase for bypass capability
- 3 SNMP Communications Card**
Monitor and manage power via network with included Simple Network Management Protocol card
- 4 2-year Warranty (U.S. & Canada Only)**
Get peace of mind with a full 2-year parts and labor warranty, 1-year full battery coverage, along with 10-years of prorated battery coverage



Expert Support *Your questions: answered*

Solutions for 10-40kVA and beyond - see our complete lineup of 3-phase products and get support for your application at our website.



Full 3-phase lineup up to 750kVA,
1-on-1 support, and more:
www.minutemanups.com/3phase



EnTerra 10kVA 3-phase UPS

EnTerra 10-40kVA UPS

Standard features include:

- **Up to 94% Efficiency**
Lower energy costs and reduced carbon footprint
- **Compact and reliable**
10-40kVA internal batteries allow for a smaller footprint; cooler operation extends internal component life
- **All units include Startup, Internal Bypass, 2-year Warranty, and SNMP Communications Card**
Warranty includes batteries: 1-yr full coverage, 10-yr prorated
- **AC Input Performance**
High input power factor correction; 0.99
Low input current distortion of <1%; Soft start power walk-in function that ensures progressive rectifier start-up
- **IGBT and Digital Signal Processor (DSP)**
Reduces the impact of the UPS on the local utility supply; reduces operating cost
- **Single or Dual Inputs Standard**
Main utility input and secondary emergency standby power input increase the reliability of source power without the addition of optional equipment
- **Adaptive Feed Cancellation (AFC)**
Advanced control with AFC forward cancellation technology for low output harmonic distortion (<1% THD) linear load
- **LCD Touchscreen menu select display**
User friendly display is easy to see and intuitive to use
- **Expandability**
Parallel up to 4 units for capacity or redundancy, providing up to 160kVA of power or 120kVA, (N+1), for redundancy.
- **Power Conditioning and Frequency Conversion**
Modules can be configured to operate as a power conditioner upgradeable to a UPS in the future*
All units can be set as a 50/60 Hz converter*

*Requires assistance from an authorized service technician

Accessories

Get the most from your UPS with these options

- **Additional monitoring devices**
Temperature, Humidity, and Smoke sensors available for SNMP monitoring
- **Remote alarm panel**
- **External Maintenance Bypass Switch**
- **External battery cabinets**
Increase runtime with additional battery capacity
- **Input / Output transformers**
- **Output distribution panel**
- **Output parallel cabinets**
- **Spare parts kits**
- **On-site training (US & Canada Only)**
- **Extended warranty plans (US & Canada Only)**
- **Preventive maintenance items**

Specifications *Complete spec table at minutemanups.com/enterra*

UPS Rating kVA/KW	10/9	15/13.5	20/18	30/27	40/36
Input					
Voltage	208Y/120 VAC, 3-phase, 4 wire plus ground or 220Y/127 VAC configurable from the Front Panel**				
Range	+15% / -20% Battery Discharge@-15% with full load				
Power Factor	0.99 at 100% load, 0.98 minimum at 50% load				
Current Distortion (THD)	<1% @100% Load, <2% @ 50% Load, <5% @ 10% Load				
Input Current (A)	Nominal: 28 Maximum: 33	Nominal: 42 Maximum: 49	Nominal: 55 Maximum: 65	Nominal: 83 Maximum: 97	Nominal: 111 Maximum: 130
Output					
Voltage	208Y/120 VAC, 3-phase, 4 wire plus ground or 220Y/127 VAC configurable from the Front Panel**				
Static Voltage Regulation	+/- 2%				
Voltage Distortion (THD)	Less than 1% (Linear load), less than 2% with crest factor 2.5 to 1				
Overall Efficiency	Up to 94%				
Output Current (A)	28	42	55	83	111
Battery Runtime (minutes) @ .9 PF					
Internal Battery String Model (-X) Min.	(-1) 37, (-2) 18, (-3) 9	(-1) 21, (-2) 10, (-3) 3	(-1) 14, (-2) 6	(-1) 8	(-1) 4
Dimensions and Weights					
H x W x D (in / mm)	47.1 x 20.3 x 33.0 / 1196 x 516 x 838			52.0 x 23.2 x 33.0 / 1321 x 589 x 838	
- (X) model, lbs. (kg)	-0, 410 (186) -1, 950 (431) -2, 735 (334) -3, 630 (286)			-0, 585 (266) -1, 1,125 (510) -1, 1,185 (538)	
Misc.					
SNMP/WEB	SNMP Card and UPS PowerView Pro Shutdown and Monitoring Software for Windows/Novell				
208V Model	UL listed to 1778, CUL to CSA C22.2, NEMA PE-1, ASME, ASA-C-39.1-1984, FCC Part 15 Subpart J Class B, NEC, OSHA, IEEE587, ANSI C 62.41-1980, ISO9000				

EnTerra models can be ordered with multiple internal battery string configurations depending on runtime needs. Available configuration model numbers and runtimes are listed below:

ENP Model	kVA / KW	Internal Battery Time (min.)	ENP Model	kVA / KW	Internal Battery Time (min.)
ENP-010-1	10 / 9	37	ENP-020-1	20 / 18	14
ENP-010-2	10 / 9	18	ENP-020-2	20 / 18	6
ENP-010-3	10 / 9	9			
			ENP-030-1	30 / 27	8
ENP-015-1	15 / 13.5	21			
ENP-015-2	15 / 13.5	10	ENP-040-3	40 / 36	4
ENP-015-3	15 / 13.5	3			

Note: Longer battery run time available
For frequency converter add -FC to ENP model number

**Requires assistance from an authorized service technician

Endeavor 5-10kVA Series

5-10kVA True Online Double Conversion Rack/Tower

The Minuteman® Endeavor™ 5-10kVA Series UPS combines transient-free pure sine wave output, extended runtime, and redundant or parallel configurations for critical applications. A front panel LCD display provides visual notification of the UPS status, including AC input status, battery status, and UPS fault indication.

Endeavor 5-10kVA series is the largest and most comprehensive single-phase product line in the Minuteman family. In addition to a multitude of voltage and outlet configurations, the line can also be paralleled for additional capacity or redundancy, making it ideal for a wide range of applications.



Key Product Line Features



Double Conversion
Ensures purest power quality



True Sine Wave Output
Suitable for sensitive equipment



Emergency Power Off Port (EPO)
Added safety - built right in



3-yr Non-prorated Warranty
Unmatched peace of mind



Extended Runtime Capable
Protect against extended outages



SNMP Option Slot
Card slot for network communications



120, 208, 240V Applications
Unmatched installation versatility

Applications



Communications
Large telephone systems



Security
Facility-wide system backup



Small Data Center
Servers, Switches, Network Storage

Capacity:
● Sm ● Med ● Lrg

Parallel / N+1 Redundancy Expand for added capacity or reliability

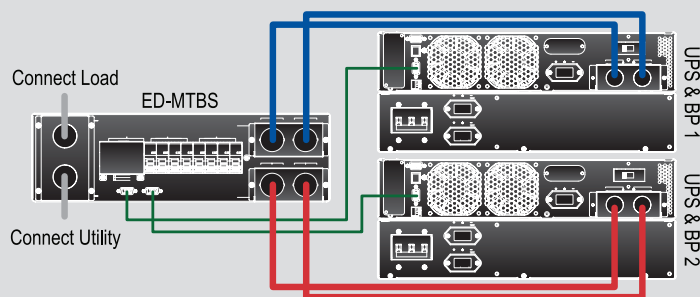
In addition to stand-alone configuration, two Endeavor 5-10kVA rackmount UPS systems can be installed in parallel, automatically providing one of two added benefits depending on attached electrical load:

1 Less than 50% Load:

Parallel for N+1 Redundancy

2 More than 50% Load:

Parallel for Capacity (up to 20kVA)



Endeavor 5/6kVA Control Unit (2U rack height)



Endeavor 5/6kVA External Battery Pack (BP192RTXL)



Endeavor 8/10kVA External Battery Pack (BP240RTXL)



Endeavor 5-10kVA Maintenance Bypass Switch



Endeavor 8/10kVA Control Unit (3U rack height)



Endeavor 5-10kVA UPS

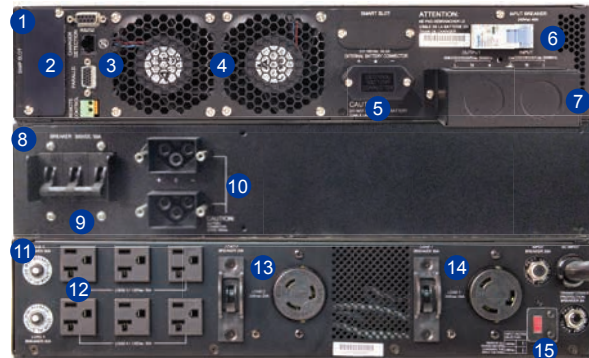
Standard features include:

- **True double-conversion online technology**
Maximum protection for critical equipment
- **Digital Signal Processor design**
Higher reliability; reduced number of components in the UPS
- **Higher power factor (0.9pf)**
Increases the real power capacity of each individual model
- **120VAC/208VAC w/ standard receptacles**
Provides flexibility for support of multiple voltages used on connected loads
- **240V Input/Output Optional**
Units can be factory-configured for 240V electrical service*
- **Parallel 2 units - up to 20kVA Capacity**
Unit automatically selects parallel for added capacity, or N+1 redundancy based on attached load
- **User-friendly LCD Display**
Minuteman's familiar LCD interface provides real-time status and control of the unit
- **5 and 6kVA include 10' L6-30P power cord**
- **Automatic Internal Bypass**
The UPS will sound an alarm and go to bypass mode when an internal fault, (either hardware or battery), is detected
- **Independent Battery Bypass**
The unit will provide a constant 120 or 208V output when utility power is present, even with dead or defective batteries
- **Smart Fan Control**
Variable speed fan control maximizes the cooling of the UPS while maintaining optimum efficiency
- **Cold Start Function**
Start UPS even without utility power
- **Simultaneous Communication Options**
Greater management and monitoring flexibility
- **Minuteman SentryHD**
UPS monitoring and control software included
- **RoHS 2 and ENERGY STAR Certified**
Meets EU standards for reduction of hazardous materials and ENERGY STAR energy efficiency standards
- **Industry leading product protection**
Standard 3-year electronics and battery warranty with non-prorated battery coverage; 5-year extended available; \$200,000 Platinum Protection Plan (US and Canada)

*Additional charge for 240V configuration

Specifications *Complete spec table at minutemanups.com/endeavor510*

Model No. (208V) (208 in - 120/208 out)	ED5200RTXL (ED5000RTXL)	ED6200RTXL (ED6000RTXL)	ED8200RTXL (ED8000RTXL)	ED10200RTXL (ED10000RTXL)
VA/Watts	5000 / 4500 (4556 / 4100)	6000 / 5400 (5556 / 5000)	8000 / 7200 (6889 / 6200)	10000 / 9000 (8889 / 8000)
System Voltage	192VDC		240VDC	
Runtime (half/full)	12 / 4 min	11 / 3 min	14 / 5 min.	12 / 4 min.
Voltage Range	156 - 280VAC		180 - 280VAC	
Input Plug Type	Hardwire / L6-30P/pigtail cord included (Hardwire / L6-30P/pigtail cord included)		Hardwire Only (Hardwire Only)	
Output Plug Type	Hardwire Only (6 - NEMA 5-15/20R, 1 - L6-20R, 1-L6-30R)		Hardwire Only (8 - NEMA 5-15/20R, 1 - L6-20R, 1 - L6-30R)	
Communications Ports	SNMP Option Slot			
L x W x H (in / mm)	26 x 17.3 x 7 / 660 x 440 x 177.5 (26 x 17.3 x 7 / 660 x 440 x 177.5)		24.6 x 17.3 x 10.28 / 625 x 440 x 261.2 (24.6 x 17.3 x 10.28 / 625 x 440 x 261.2)	
Weight (lbs / kg)	115.8 / 52.5 (198.5 / 88.0)		181.0 / 82.1 (339.7 / 154.1)	
Certifications	cTUVus (Conforms to UL1778 4th Edition & CSA 22.2 no. 107.3-05), RoHS 2, ENERGY STAR Certified			
Available Accessories	Model number suffix (ED5000RTXLMB)			
External Maintenance Bypass Switch (MTBS)	MB	MB	MB	MB
5kVA XFR & MTBS	-	-	5TFMB	5TFMB
External Battery Packs				
	BP192RTXL		BP240RTXL	
Parallel Installations	ED1000RTXLP	ED12000RTXLP	ED16000RTXLP	ED20000RTXLP
VA/Watts	10000/9000	12000/10800	16000/14400	20000/18000
Weight (lbs / kg)	368.0 / 166.9	369.0 / 167.3	491.0 / 222.7	492.0 / 223.2



- 1 UPS Control Unit
- 2 SNMP Option Slot
- 3 Parallel Connections
- 4 Cooling Fans
- 5 External Battery Connection
- 6 Input Circuit Breaker
- 7 Input/Output Connections
- 8 External Battery Pack
- 9 Battery Pack (DC) Circuit Breaker
- 10 Control Unit/BP Connections
- 11 Optional 120V Transformer
- 12 120V NEMA 5-15/20R Receptacles
- 13 208V L6-20R Recept. & Circ. Brkr.
- 14 208V L6-30R Recept. & Circ. Brkr.
- 15 Input Voltage Selection (208/240V)

Endeavor 6 and 10kVA Tower UPS

Parallel and Extended Runtime Capable Tower

The Endeavor Tower Series is yet another option for applications that require the best protection available. This feature-rich, single-phase, true on-line UPS has been designed to support large loads for data centers, large telephone systems and other mission-critical applications.



Complete table at minutemanups.com/endeavor610

Model No.	ED6000T	ED6200T	ED10000T	ED10200T
VA/Watts	6000/4200		10000/7000	
Nominal Voltage (VAC)	120 and 208/240	208/240	120 and 208/240	208/240
Runtime (half/full)	21 / 8 min		15 / 5 min	
Input & Output Type	Hardwired Standard			
SNMP Manageable	Yes (Optional)			
L x W x H (in / mm)	25.4 x 11.4 x 29.4 / 645 x 290 x 748		25.4 x 11.4 x 34.7 / 645 x 290 x 881	
Weight (lbs / kg)	313 / 142	203 / 92	412 / 187	302 / 137
Extended Runtime	EDBP10000T External Battery Pack			

Endeavor 1-3kVA Series

1-3kVA True Online Double Conversion Rack/Tower

The Minuteman® Endeavor™ Series online uninterruptible power supply combines double-conversion technology with industry-leading features in a versatile case design that allows the units to be installed in many different formats and environments.

The Endeavor Series is rich in standard features and optional accessories allowing users to order "off the shelf" products and yet retain the flexibility previously only available as a special order product.



Key Product Line Features



Double Conversion
Ensures purest power quality



True Sine Wave Output
Suitable for sensitive equipment



Emergency Power Off Port (EPO)
Added safety - built right in



3-yr Non-prorated Warranty
Unmatched peace of mind



Extended Runtime Capable
Protect against extended outages



SNMP Communications Slot
Card slot for network communications



120, 208, 240V Models
Unmatched installation versatility

Applications



Communications
Telephone systems, VoIP



Security
Medium-Large DVR/NVR, POE



IT/Network
Servers, Switches, Network Storage

Capacity:

● Sm ● Med ● Lrg

Double Conversion Technology Mission Critical Protection

Minuteman's Double Conversion UPS technology converts incoming utility power from AC voltage to DC, and then back to AC before output. This ensures the purest power quality for mission critical systems.

In addition to superior power conditioning, Double Conversion units feature zero transfer time to batteries vs. multiple millisecond times for other UPS types.

Units featuring double conversion eliminate all power problems, including:

- Surges and spikes
- Blackouts
- Sags / Brownouts
- Harmonics / Line Noise



Endeavor 1-3kVA UPS shown in rackmount and tower configurations using included mounting hardware



Endeavor 1-3kVA UPS

Standard features include:

- **Up to 0.8 power factor**
Increased capacity without migrating to larger models
- **Double Conversion protection**
- **Up to 7 outlets**
- **Load shedding**
Two power banks allow equipment prioritizing for increased runtime
- **Virtually unlimited runtime**
No limitation on the number of external battery packs
- **Flexibility in installation**
Rack or tower configurable; wallmount kits available
- **Small form factor**
3.5-inch (2U) rack/tower case
- **Versatile communications**
Simultaneous RS-232, USB and SNMP
- **Minuteman SentryPlus**
UPS monitoring and control software included
- **Easy to read LED display**
With load/battery meter, unit status, alarm indicators
- **Dedicated remote Emergency Power Off (EPO)**
Safely and quickly shut down power in emergencies
- **120, 208, and 240V**
All models available for 120V, 208V input and 208/240V output
- **RoHS compliant**
- **Industry leading product protection**
Standard 3-year electronics and battery warranty with non-prorated battery coverage; \$200,000 Platinum Protection Plan (US and Canada)

Accessories

Get the most from your UPS with these options

- **SNMP Communications Cards**
Monitor and manage Endeavor via network; see page 19 for complete details



- **SNMP-NET**
- **SNMP-NV6**

- **Mounting Accessories**
Additional mounting options to fit your needs



- **E BRKT WALL**
- **E BRKT RAIL**
- **E BRKT 23**

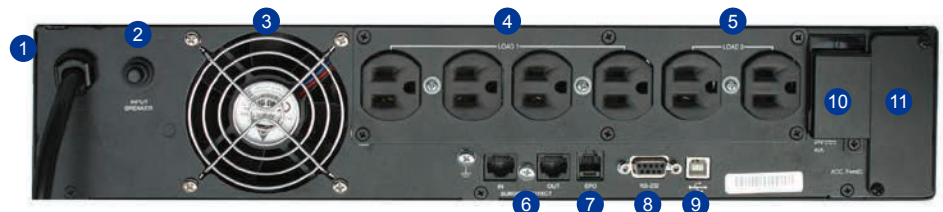
- **5-Year Extended Warranty Plans**
See page 5 for complete details



- **Standard Plan**
- **Premiere Plan**

Specifications *Complete spec table at minutemanups.com/endeavor*

Model No. 120V (208V)	ED1000RM2U (ED1000RMT2U)	ED1500RM2U (ED1500RMT2U)	ED2000RM2U (ED2000RMT2U)	ED3000RM2U (ED3000RMT2U)
VA/Watts	1000/800	1500/1200	2000/1600	3000/2100
Battery Module No.	BM0035	BM0036	BM0037	BM0032
Runtime (min) Half/Full load	13/4			15/5
UPS Receptacles Type x Qty (208V)	6 - 5-15R (4 - 6-15R)		5-15/20Rx6, L5-20Rx1 (6-15/20Rx4, L6-20Rx1)	5-15/20Rx6, L5-30Rx1 (6-15/20Rx4, L6-30Rx1)
Input Plug	5-15P (6-15P)		5-20P (L6-20P)	L5-30P (L6-30P)
Cord Length (ft)	10			
Communications Ports	RS-232, USB, SNMP Option Slot			
L x W x H (in / mm)	13.1 x 17.3 x 3.5 / 335 x 440 x 89		13.1 x 17.3 x 3.5 / 335 x 440 x 89	24 x 17.3 x 3.5 / 610 x 440 x 89
Net Weight (lbs / kg)	29.0 / 13.2	43.1 / 19.6	46.2 / 21.1	67.7 / 30.7
Approvals	RoHS Compliant, UL 1778, cUL, CE, FCC Class B for 1000VA, Class A for 1500, 2000, 3000VA and Battery Packs			



- | | | |
|-------------------------|-------------------------|--------------------------------|
| 1 10 ft. Power Cord | 5 Load Bank 2 | 9 USB Communications |
| 2 Input Circuit Breaker | 6 Phone/Network Surge | 10 External Battery Connection |
| 3 Cooling Fan | 7 Remote EPO Connection | 11 SNMP Option Slot |
| 4 Load Bank 1 | 8 RS-232 Communications | |

Extended Runtime Options *Hours of protection for extended outages*

Increase runtimes substantially and economically with XL (top) and EXL (bottom) extended runtime battery packs for Endeavor 1-3kVA. These units can be daisy-chained for virtually unlimited capacity.



UPS Model	ED1000RM2U	ED1500RM2U	ED2000RM2U	ED3000RM2U
XL Battery Pack Model No.	EDBP24XL	EDBP48XL		BP72RTXL
Dimensions (in / mm) L x W x H	13.1 x 17.3 x 3.5 / 335 x 482.6 x 89 (2U rack height)	17.0 x 17.3 x 3.5 / 432 x 482.6 x 89 (2U rack height)		17.0 x 19.0 x 3.5 / 432 x 482.6 x 89 (2U rack height)
Weight (lbs)	39.6	66.0		56.0
Battery Module No.	BM0038	BM0039		BM0034
Internal Charger	Yes	Yes		Yes
Recharge Time	8 hours	8 hours		8 hours
EXL Battery Pack Model No.	BP24RTEXL	BP48RTEXL		BP72RTEXL
Dimensions (in / mm) L x W x H	26.8 x 17.3 x 5.2 / 680 x 440 x 132 (3U rack height)			
Weight (lbs)	138.9			
Battery Config.	12V / 8.5Ah (20)			

Learn more about Extended Runtime options at minutemanups.com/exl

EnterprisePlus LCD Series

750VA-3kVA True Sine Wave AVR Rack/Tower

The latest in Minuteman's popular Enterprise Series, the EnterprisePlus LCD offers users more of what has made the series one of our best selling lines. New features include lower cost standard runtime models, an informative LCD Display, and additional outlets vs. previous models.

The EnterprisePlus LCD Series of UPSs offer complete protection from all electrical problems, including spikes, surges, sags, brownouts, and blackouts, in a versatile rack/tower convertible format. True sine wave electrical output ensures the best power for sensitive electronic equipment.



Key Product Line Features



True Sine Wave Output
Suitable for sensitive equipment



Automatic Voltage Regulation
Longer runtimes and battery life span



Emergency Power Off Port (EPO)
Added safety - built right in



3-yr Non-prorated Warranty
Unmatched peace of mind



Extended Runtime Capable
Protect against extended outages



Independent Battery Bypass
Protection regardless of battery status



120 and 208/240V Models
Unmatched installation versatility

Applications



Communications
Telephone systems, VoIP



Security
Medium-Large DVR/NVR, POE



IT/Network
Servers, Switches, Network Storage

Capacity:

● Sm ● Med ● Lrg

LCD Display Real-time updates on power and status

Stay up to date on all aspects of your power with EnterprisePlus LCD's control panel.

- Unit Status Indicator**
AC normal, On-battery, Weak/Bad Battery, Faults
- Load and Battery Meters**
Monitor battery status, electrical load on unit
- Numeric Display**
Power status including voltage, frequency, runtime remaining, kilowatt and volt amp load
- Display Scroll Button**
Quickly browse status screens to monitor power
- Alarm Silencer Button**
Silences battery mode warning alarm
- On/Off/Test Button**
Power unit up or down, perform self test



EnterprisePlus LCD UPS shown in rackmount and tower configurations using included mounting hardware



Minuteman Power Technologies

EnterprisePlus LCD UPS

Standard features include:

- **0.8 and greater power factor**
Get increased capacity without migrating to larger models
- **Load shedding**
Two independently controlled power banks allow equipment prioritizing for increased runtime (+ always on segment)
- **Independent Battery Bypass**
Provides voltage regulation with surge and spike protection even when batteries are weak or dead.
- **Virtually unlimited runtime with XL Models**
No limitation on the number of external battery packs
- **Alarm Silence button on front panel**
Silence the alarm during outages without need for software
- **Flexibility in installation**
Rack or tower configurable; wallmount kits available
- **Small form factor**
3.5-inch (2U) rack/tower case
- **Versatile communications**
Simultaneous RS-232, USB and SNMP
- **Minuteman SentryPlus**
UPS monitoring and control software included
- **Easy to read LCD display**
With load/battery meter
- **Dedicated remote Emergency Power Off (EPO)**
Safely and quickly shut down power in emergencies
- **120V and 208/240V**
208V models available (1500 and 3000VA models)
- **RoHS 2 and ENERGY STAR compliant**
Meets EU standards for reduction of hazardous materials and select models meet ENERGY STAR energy efficiency standards
- **Industry leading product protection**
Standard 3-year electronics and battery warranty with non-prorated battery coverage; \$100,000 Platinum Protection Plan (US and Canada)

Accessories

Get the most from your UPS with these options

- **SNMP Communications Cards**
Monitor and manage EnterprisePlus LCD via network; see page 19 for complete details



- SNMP-NET
- SNMP-NV6

- **Mounting Accessories**
Additional mounting options to fit your needs



- E BRKT WALL
- E BRKT RAIL
- E BRKT 23

- **5-Year Extended Warranty Plans**
See page 5 for complete details



- Standard Plan
- Premiere Plan

Specifications *Complete spec table at minutemanups.com/enterprisepluslcd*

Standard Runtime Extended Runtime	E750RT2U E750RTXL2U	E1000RT2U E1000RTXL2U	E1500RT2U E1500RTXL2U*	E2000RT2U E2000RTXL2U	E3000RT2U E3000RTXL2U*
VA/Watts	750/600	1000/800	1500/1200	2000/1760	3000/2560
Battery Module No.	BM0029	BM0029	BM0030	BM0031	BM0032
Runtime (min) Half/Full load	17/8	15/5	11/4	13/5	8/3
Receptacles (Qty and Power)	5-15R (8 UPS)			5-15/20R (8 UPS) L5-20R (1 UPS)	5-15/20R (7 UPS) L5-30R (1 UPS)
Input Plug	5-15P	5-15P	5-15P	5-20P	L5-30P
Cord Length (ft)	10				
Communications Ports	RS-232, USB, SNMP Option Slot				
Dimensions (in / mm) L x W x H	17.4 x 19.0 x 3.5 / 442.0 x 482.6 x 89.0 (2U rack height)			24.0 x 19.0 x 3.5 / 610.0 x 482.6 x 89.0 (2U rack height)	
Net Weight (lbs / kg)	41.2 / 18.7	43.7 / 19.8	44.1 / 20.0	72.1 / 32.7	78.0 / 35.4
ENERGY STAR	-	-	Yes	Yes	Yes

*208/240V model also available (RTXL2U)



- | | | |
|----------------------------|----------------------------------|--------------------------------|
| 1 Remote EPO Connection | 5 Network/Phone Surge Protection | 9 Output Receptacles (Load 2) |
| 2 USB Comm. Port | 6 External Battery Connection | 10 Output Receptacles (Load 3) |
| 3 RS-232 Comm. Port | 7 SNMP Option Slot | 11 Input Circuit Breaker |
| 4 Output Voltage Dipswitch | 8 Output Receptacles (Load 1) | 12 10 ft. Power Cord |

Extended Runtime Options *Hours of protection for extended outages*

Increase runtimes substantially and economically with XL (top) and EXL (bottom) extended runtime battery packs for EnterprisePlus LCD. These units can be daisy-chained for virtually unlimited capacity.



UPS Model	E750RTXL2U	E1000RTXL2U	E1500RTXL2U	E2000RTXL2U	E3000RTXL2U
XL Battery Pack Model No.	BP36RTXL			BP72RTXL	
Dimensions (in / mm) L x W x H	17.0 x 17.3 x 3.5 / 335 x 482.6 x 89 (2U rack height)			17.0 x 17.3 x 3.5 / 432 x 482.6 x 89 (2U rack height)	
Weight (lbs)	56.0			56.0	
Battery Module	BM0033			BM0034	
Internal Charger	Yes			Yes	
Recharge Time	8 hours			8 hours	
EXL Battery Pack Model No.	BP36RTEXL			BP72RTEXL	
Dimensions (in / mm) L x W x H	26.8 x 17.3 x 5.2 / 680 x 440 x 132 (3U rack height)				
Weight (lbs)	127.9				
Battery Config.	12V / 9.0Ah (18)				

Learn more about Extended Runtime options at minutemanups.com/exl

PRO-RT Series

1000 and 1500VA AVR Rack/Tower

The PRO-RT Series is a value-priced, yet feature-rich UPS incorporating line interactive technology that preserves battery power by providing voltage regulation during voltage sags and/or surges. The PRO-RT Series can be used to support servers, telecom or VoIP systems, security systems, plus many other applications.

An LCD display provides visual notification of power status, including input voltage, frequency, percent of battery charge, estimated runtime, plus many other conditions.



Key Product Line Features

- 82 LCD Status Display**
Power information in real-time
- AVR Automatic Voltage Regulation**
Longer runtimes and battery life span
- SentryPlus Software Included**
Monitor and manage via RS-232, USB
- 3-yr Non-prorated Warranty**
Unmatched peace of mind
- Simulated Sine Wave**
Economical rackmount protection
- SNMP Communications Slot**
Card slot for network communications
- RoHS Compliant**
Complies with EU safety directive

Applications

- Communications**
Telephone systems, VoIP
- Security**
Medium-Large DVR/NVR, POE
- IT/Network**
Servers, Switches, Network Storage
- Capacity:**
Sm Med Lrg

LCD Display Real-time updates on power and status

Stay up to date on all aspects of your power with PRO-RT's control panel.

- Unit Status Indicator**
AC normal, On-battery, Weak/Bad Battery, Fault, Site Wiring Fault
- Load and Battery Meters**
Monitor battery status, electrical load on unit
- Numeric Display**
Power status including voltage, frequency, estimated runtime remaining
- Display Scroll Button**
Quickly browse status screens to monitor power
- On/Off/Test Button**
Power unit up or down, perform self test



PRO-RT UPS shown in rackmount and tower configurations using included mounting hardware



PRO-RT UPS

Standard features include:

- **Easy to read LCD display**
Shows UPS operating status, input and output power status, estimated runtime remaining, and fault codes
- **Rack/tower installation**
(2U rack height) or wall mounting with optional kit
- **Minuteman SentryPlus**
SentryPlus auto-shutdown and monitoring software is included with every unit
- **RS-232 and USB communications**
No special USB drivers are required for USB communications
- **SNMP compatible**
Each PRO-RT unit can be managed on a network with the addition of an optional SNMP management card
- **Network/Fax/Phone protection**
The PRO-RT UPS provides a low cost means of protecting network/fax/phone lines
- **RoHS compliant**
Compliant with European Union directive on the reduction of hazardous substances (RoHS) in electronic equipment
- **Industry leading product protection**
Standard 3-year electronics and battery warranty with non-prorated battery coverage; \$100,000 Platinum Protection Plan (US and Canada)



- | | | |
|------------------------------|-------------------------------------|--------------------------------|
| 1 USB Communications Port | 4 Network/Fax/Phone Protection | 7 Surge-only Outlets (2 total) |
| 2 RS-232 Communications Port | 5 SNMP Accessory Slot | 8 Input Power Cord (10 ft.) |
| 3 Cooling Vents | 6 Battery & Surge outlets (6 total) | 9 Input Circuit Breaker |

Specifications *Complete spec table at minutemanups.com/pro-rt*

Model No.	PRO1000RT	PRO1500RT	ERS1500RTNC
VA/Watts	1000/700	1500/1050	1500/1050
Battery Module No.	BM0043	BM0044	BM0057
Runtime (min) Half/Full load	5/16	5/17	3/13 (@ 25°C)
Receptacles (Qty and Power)	5-15R (6 UPS, 2 Surge-only)		5-15R (6 UPS, 2 Surge-only)
Input Plug	5-15P		5-15P
Cord Length (ft)	10		10
Status Display Type	LCD		LED
Communications	RS-232, USB, SNMP Option Slot		RS-232, USB, SNMP-NV6 Included
Dimensions LxWxH (in / mm)	3.5 x 17.3 x 15.7 / 89 x 440 x 398		3.5 x 17.3 x 15.7 / 89 x 440 x 398
Net Weight (lbs / kg)	35.1 / 15.9	43.0 / 19.5	43.0 / 19.5
Conformal Coated Electronics	No		Yes
Operating Temperature	0° to +40°C / +32° to +104°F		-15 to +50°C / +5 to +122°F
Temp. Compensated Charging	No		Yes
Warranty	3-year including batteries		1-year parts and labor

Environmental Series UPS

1500VA Ruggedized AVR Rack/Tower

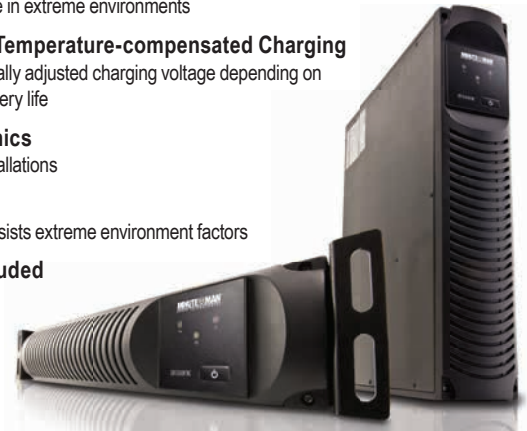
Designed to efficiently operate in environments facing temperatures outside the normal range of standard UPSs, the Environmental Series UPS can be used to support Servers, Telecom equipment, VoIP systems, Security systems, Traffic control and monitoring equipment and a variety of other applications where standard UPS products are unable to operate.

Each Environmental Series UPS includes an SNMP-NV6 management card for remote management and network monitoring capability. Temperature and humidity sensor can also be added for monitoring conditions of the installation site.

Standard features include:

- **Built to withstand extreme environments**
Wider operating range (-15 to 50°C) for use in extreme environments
- **High Temperature Batteries and Temperature-compensated Charging**
Higher heat range batteries and automatically adjusted charging voltage depending on the ambient temperature for increased battery life
- **Conformal coating on all electronics**
Resists corrosion due to high humidity installations
- **Rugged LED display**
Display panel communicates status and resists extreme environment factors
- **SNMP communications card included**
Attach to the network for management via NMS or web browser

ERS1500RTNC UPS shown in rackmount and tower configurations using included mounting hardware



Complete spec table and more at minutemanups.com/environmental

Key Product Line Features

- | | | | |
|---|--|---|--|
| Extreme Environment Capable
Installs safely in extreme environments | Automatic Voltage Regulation
Longer runtimes and battery life span | SNMP Communications Card
SNMP-NV6 Card Included | LED Status Display
Unit status at a glance |
|---|--|---|--|

- | | | | | |
|---------------------|--|--|---|--|
| Applications | Communications
Telephone systems, VoIP | Security
Medium-Large DVR/NVR, POE | IT/Network
Servers, Switches, Network Storage | Capacity:
Sm Med Lrg |
|---------------------|--|--|---|--|

Entrust Series

500-1500VA Line Interactive AVR Rack/Tower

The Minuteman Entrust Series UPS provides users all the features usually available in higher-priced UPS products to protect your valuable equipment: automatic voltage regulation, spike and surge protection, and battery backup, all in a surprisingly compact package.

Each Entrust unit has eight total outlets to ensure that all devices in your system can be protected with one of four surge-only or four surge and battery protected outlets. Entrust's compact footprint makes it an ideal solution for cramped spaces including network and security closets, AV cabinets, tight desks, and more. With sizes ranging from 500VA to 1500VA, Entrust can support a wide range of equipment, including small to midsize security DVRs, network devices, small telephone systems, and more.



Key Product Line Features



LED Status Display
Unit status at a glance



Automatic Voltage Regulation
Longer runtimes and battery life span



SentryPlus Software Included
Monitor and manage via USB



3-yr Electronics Warranty
2-yr non-prorated battery

Applications



Communications
Workstations, Small Phone Systems



Security
Midsize DVR, Acc Ctrl, Intrusion



IT/Network
Switches, Hubs, Access Points

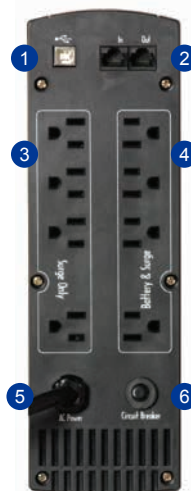
Capacity:
● Sm ● Med ● Lrg

Features

- USB Communications**
Entrust Series has HID-compliant USB communications that is automatically recognized by all Windows software versions. No special drivers are required
- Buck/Boost voltage regulation**
Offers a more stable AC source during surge and sag events without constant use of internal batteries
- Slim-line profile**
Provides users with the ability to install the Entrust Series in a variety of environments
- RoHS compliant**
Compliant with European Union directive on the reduction of hazardous substances (RoHS) in electronic equipment
- Minuteman SentryPlus**
SentryPlus auto-shutdown and monitoring software is included with every unit. No special downloads or coupons are required
- Larger load capacities**
Minuteman has increased the capacities of the models in the Entrust line, allowing the units to support larger power requirements
- Industry leading product protection**
Standard 3-year parts and labor warranty with 2-year non-prorated battery coverage; \$75,000 Platinum Protection Plan (US and Canada)

Specifications *Complete spec table at minutemanups.com/entrust*

Model No.	ETR500	ETR700	ETR1000	ETR1500
VA/Watts	500/300	700/420	1000/600	1500/900
Battery Module	BM0052	BM0053	BM0040	BM0041
Runtime (min) Half/Full load	9 / 2	10 / 3	14 / 4	11 / 3
Receptacles (Qty and Power)	5-15R (4 UPS, 4 Surge-only)			
Input Plug	5-15P			
Cord Length (ft)	6			
Communications Ports	USB			
Dimensions (in/mm) LxWxH	10.9 x 3.43 x 10.8 / 277.2 x 87 x 274.4		16.4 x 3.43 x 10.8 / 412.5 x 87 x 274.4	
Net Weight (lbs/kg)	13.2 / 6.0	15.4 / 7.0	28.9 / 13.1	29.3 / 13.3



- 1 USB Comm. Port
- 2 Network/Phone Surge Protection
- 3 Surge-only Receptacles (4)
- 4 Battery and Surge Receptacles (4)
- 5 6 ft. Input Power Cord
- 6 Circuit Breaker

EnSpire Series

400-900VA Standby Wall-mountable

The Minuteman EnSpire Series UPS is a low-cost, high performance UPS line that provides the features needed to protect your valuable equipment. The EN400 and EN600 units each have six outlets, three provide battery support along with spike and surge protection and three with spike and surge protection only.

The EN750 and EN900 each have four of the outlets described above for total protection of up to eight connected devices. In addition, all units have outlets which are specifically spaced to support transformer blocks.



Key Product Line Features



LCD Status Display
Power information in real-time



SentryPlus Software Included
Monitor and manage via USB



Wall-mountable
Units feature wall-mount holes



3-yr Electronics Warranty
2-yr non-prorated battery

Applications



Communications
Workstations, Peripherals



Security
Small DVR, Acc Ctrl., Intrusion



IT/Network
Switches, Hubs, Access Points

Capacity:

Sm Med Lrg

Features

- **Economical Standby protection hardware**
Cost-effective surge and backup protection for small loads
- **Versatile connection options**
6 (400 and 600) or 8 (750 and 900) outlets to ensure a connection for all of your devices
- **Compact, wall-mountable case**
- **USB communications**
EnSpire UPS USB connections are automatically recognized by Microsoft Windows
- **Single line phone/fax/modem protection**
The EnSpire UPS provides a low cost means of protecting telephone/fax/modem lines

Features on 750 and 900VA Models:

- **Easy to read LCD display**
Real-time updates on system and power status, estimated runtime remaining based on attached load
- **Green Mode**
Lower power consumption mode during off-time
- **Coax protection**
Protect coaxial cable for AV equipment from damaging spikes and surges
- **Industry leading product protection**
Standard 3-year parts and labor warranty with 2-year non-prorated battery coverage; \$50,000 Platinum Protection Plan (US and Canada)

Specifications *Complete spec table at minutemanups.com/enspire*

Model No.	EN400	EN600	EN750	EN900
VA/Watts	400/200	600/300	750/400	900/500
Battery Module No.	BM0042	BM0042	BM0040	BM0041
Runtime (min) Half/Full load	10 / 2			
Receptacles (Qty and Power)	5-15R (3 UPS , 3 Surge-only)		5-15R (4 UPS , 4 Surge-only)	
Input Plug	5-15P			
Cord Length (ft)	6			
LCD Display	No	No	Yes	Yes
Communications Ports	USB (RJ45)			
Dimensions (in/mm) LxWxH	11.97 x 4.84 x 3.35 / 304 x 123 x 85		12.40 x 7.20 x 3.30 / 314 x 183 x 83	
Net Weight (lbs/kg)	6.44 / 2.92	7.05 / 3.20	9.40 / 4.30	9.70 / 4.40



- 1 Battery and Surge Receptacles (3 / 4)
- 2 Surge-only Receptacles (3 / 4)
- 3 Network/Phone Surge Protection
- 4 USB Comm. Port (RJ45 to USB)

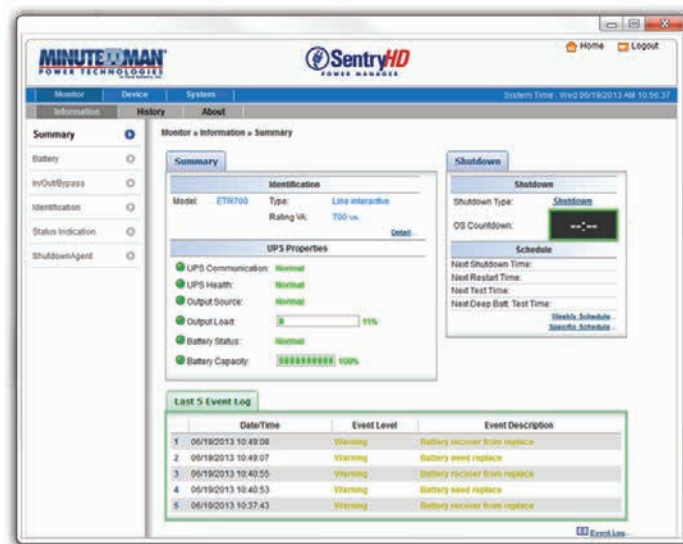
- 5 Coax Surge
- 6 6 ft. Input Power Cord
- 7 Circuit Breaker

SentryHD Power Manager

Monitoring and Management Software

SentryHD is the latest update to Minuteman's popular Sentry monitoring and management software. This powerful tool provides users and network managers a range of monitoring and management tools for their power, allowing total control before, during, and after power problems.

With a simple connection to the UPS via USB, RS-232, or SNMP accessory cards, SentryHD provides the capability to configure UPSs, monitor power, and diagnose issues, all from secure connections on the network. SentryHD allows administrators to eliminate wasteful service calls around the facility, saving significant time and money.



Key Product Line Features



Auto Notification
User-configurable alarms



Power Status Logging
Easily analyze power

System Compatibility

EnterprisePlus LCD, Endeavor 5-10kVA

Features

- Versatile communications**
SNMP/Ethernet compatibility
- Wide-reaching management capability**
Concurrent monitoring through single or multiple computers via RS-232 and USB
- NMS integration**
Supports SNMP v1, v2c, and v3 traps for integration into Network Management Systems
- Secure connection**
HTTPs and SSL support
- TCP/IP network**
Remote monitoring, control, multi-computer shutdown/restart and configuration through TCP/IP network
- Multiple device management**
Monitor and control multiple UPS devices from a single application session

Ultimate control and knowledge of your devices:

- Real-time graphical displays of user-defined UPS and utility conditions
- Record and save graphical event and history logs for future analysis
- Device control - restart, test UPS and control receptacles
- Powerful reporting - Full diagnostic and event reporting, printable history, event logs and security measures
- Real-time Monitoring Dashboard meters display UPS data (voltage, frequency, load percentage, etc.)
- Central Control - Monitor all UPSs at a glance within a network

SentryHD Compatibility:

- Compatible with most new generation Minuteman UPS products; older products use previous versions, see product user manual for details on compatibility
- Windows - 8, 7 (32-bit/64-bit), Vista (32-bit/64-bit), Server 2008 R1 (32-bit/64-bit), Server 2008 R2 (64-bit) and Windows XP/2000/2003
- Unix and Linux

Maximize Efficiency *Learn more at minutemanups.com/sentryhd*

Utilizing SentryHD saves time and money. Configurable automatic actions to reduce downtime, increase efficiency:

- Save Power Automatically**
Perform scheduled shutdowns and restarts
- Auto-Save**
Saves files before graceful operating system shutdown
- Automatic Notifications**
Email, SMS and network broadcast of

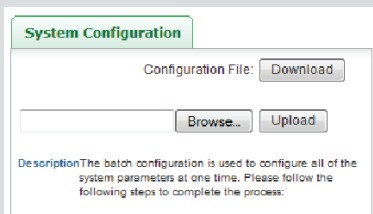
Action	SUN	MON	TUE	WED	THU	FRI	SAT	Time
1. 16 Records Test								01:00
2. Shutdown								17:00
3. Restart								02:00
4. No Action								03:00
5. No Action								04:00
6. No Action								05:00
7. No Action								06:00
8. No Action								07:00

user-defined UPS events

- SNMP Integration**
Notification via SMS, Email, voice alarm, network broadcast and SNMP trap

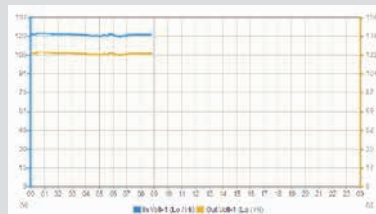
Simplified Configuration Operations

- Batch Configuration**
Configure multiple devices at once with easy-to-use batch configurations



Powerful Logging Tools

- Record and Save**
Monitor and analyze power status with powerful graphs and reports



SentryPlus Software *Legacy version - wider UPS compatibility*

- Wider compatibility**
Compatible with most current Minuteman UPS products including EnSpire, Entrust, PRO-RT, and Endeavor 1-3kVA
- Monitor, manage, and safe shutdown for Minuteman UPSs**
- NMS integration**
Supports SNMP v1, v2c, and v3 traps for integration into Network Management Systems
- 32 & 64-bit Compatibility**
Windows 7, Vista, Server 2008 R1 & R2, XP/2000/2003; Unix, Linux

SNMP Monitoring Accessories

Monitor and manage power via network

Minuteman SNMP cards are an interface between the UPS and the network. Cards can communicate the status of and issue commands to the UPS. All Minuteman SNMP cards support SNMP and HTTP protocols for user access. Through the SNMP NMS and/or Web Browser, users can monitor the UPS status, issue commands, and set up the SNMP card through the network.

A full line of monitoring accessories are also available. With these additional modules, admins can monitor temperature and humidity, detect smoke, fire, or water, sense vibration, and monitor the status of server rack or cabinet doors. Each of these modules can send an alert via SNMP trap or Email, ensuring problems can be rapidly resolved without the need for a 24 hour presence at a facility.



Key Product Line Features



Auto Notification
User-configurable alarms



Environmental Monitoring
Multiple monitoring accessories

Applications



IT/Network
Monitor devices from single location



Communications
Telephone/VoIP Systems

Compatible UPS Systems ● PRO-RT ● EnterprisePlus LCD ● Endeavor 1-3kVA ● Endeavor 5-10VA Rack, 6 and 10kVA Tower

Features

- **Connect the UPS directly to a Network**
Utilizes a standard RJ45 Ethernet connection; requires no special application software
- **Network UPS management**
Monitor and manage the UPS over any computer attached to the network
- **Integrate UPS into Network Management System (NMS)**
Using the included MIB (Management Information Base) agent or the included SNMP management software
- **Schedule events**
Shutdown or restart connected equipment daily, weekly, or monthly using the integrated scheduler
- **Track utility problems via Event Logs**
To provide history of power events on the UPS including: power quality, equipment draw, and blackoutst
- **Multiple server shutdown**
Using the included SNMP management software allows the UPS to shutdown multiple devices sequentially when a power event occurs
- **Event Notification**
Notify multiple IT personnel via SNMP traps or Email when a power event occurs
- **Telnet Support**
For flexible configuration of the SNMP card

Specifications *Complete spec table at minutemanups.com/snmp*

Model No.	SNMP-NV6	SNMP-NET
Network Connection	RJ45 Jack Connection	
Operating Temperature	0 ~ 40° C	
Operating Humidity	10 ~ 80 %	
Power Input	9 ~ 24V DC	
Power Consumption	2 Watt Maximum	1 Watt Maximum
Dimensions (in/mm) LxW	5.12 x 2.36 / 130 x 60	
IPv6 Compatible	✓	-
SYSLOG Support	✓	-
Batch Configurable	✓	-
SNMP Compatibility	v1, v2C, v3	v1
Configurable Event Alarms	✓	✓

Accessories *Add monitoring devices for total awareness*



Add an ENV-PROBE to your SNMP card for a complete monitoring solution for networks.

- **Temperature and Humidity Monitoring**
Measure the environmental conditions of the area the UPS is in and receive warnings of any abnormalities

Model No.	ENV-PROBE
Size (in)	2.6 x 2.0 x 1.4
Temperature Measurement	0 ~ 65° C 32 ~ 149° F
Humidity Measurement	20 ~ 90 %
Power Input	12V DC
Power Consumption	400 mw

Remote Power Manager (RPM)

2, 8, and 16-port Remote Management Solutions

Minuteman's RPM series of products are IP-addressable PDUs that allow administrators and technicians to remotely control the power to connected servers, network equipment, and security devices, eliminating the need for wasteful service calls to reboot unresponsive locked up devices.

Each RPM also has the capability to perform regularly scheduled shutdowns and startups, offering additional cost savings via reduced energy consumption.

RPM1521 2-port Remote Power Manager



Key Product Line Features



Auto Notification

Configurable SMS, Email, Traps



Mobile Accessible

Secure Login via Web Server



Network Devices

Switches, Routers, Hubs



Communications

Telephone Systems



Security

DVR, Camera

Applications

Maximum Efficiency

Minuteman RPM units maximize admin and technician efficiency by providing a secure webserver accessible from any standard web browser. Securely monitor and manage power from any PC, smartphone, or tablet with no special apps, software installs, or other trouble.

Automatic Notification

Receive notification of power events, unresponsive equipment, and more via SMS text (2-port only), email, or SNMP trap

Control Individual or Groups of Outlets

Configurable outlet control lets the user meet their needs

Scheduled Shutdown and Startup

Save energy and prevent lockups by scheduling regular shutdown and startup of equipment



Easy-to-use Interface



RPM1521 (above) and RPM 8 and 16-port interface main screens

Ultimate power control

Power up or down ports individually or together; delayed start and shutdown

Schedule around your needs

Regular startups, shutdowns, or reboots yearly, monthly, weekly, or daily to prevent lockups

Auto Ping function

Receive notifications of equipment lockups the moment they happen with user-configurable ping actions

Multiple account capability

Secure access for multiple users, with controls for user access to individual ports

Choose your alert

Network, Email, SMS, or SNMP trap

Powerful logging

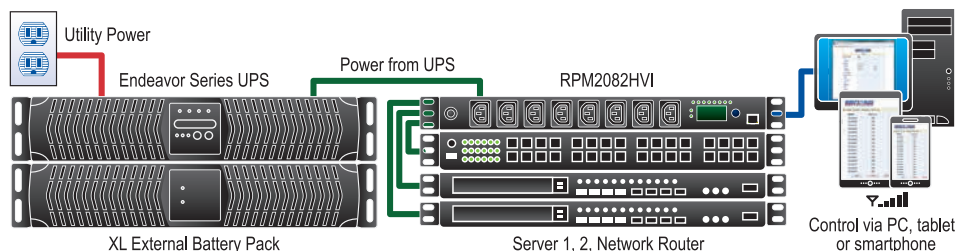
Browse event logs to see all activity on device

8 and 16-Port models also feature

Enterprise Management Utility

Manage multiple RPM units from a single consolidated interface

Example RPM System Integration



Utilize a Minuteman RPM unit in conjunction with a UPS to ensure fail-safe, controllable power. In this example, conditioned and backed up power from the UPS is provided to multiple servers and a router from the RPM2082HV1.

Control of power to these devices is accessed from the web browser of PCs, smartphones, or tablets located both within the network and abroad thanks to the RPM's secure webserver functionality.

2-Port Remote Power Manager

Standard features include:

- **IP-addressable PDU**
Built-in web server and 2 power outlets
- **Manual power ON/OFF button**
- **Independent outlet control**
Switch ON/OFF, power cycle, schedule startup/shutdown
- **Supports power start sequencing**
Startup equipment in specific order based on need
- **Auto-Ping feature**
Monitor and auto-detect any failed network equipment and perform a timed reboot
- **IP filter/mask function**
Manage user privileges and prevent unauthorized access to the control menu
- **Power status and control mode LED indicators**
- **Instant notification of alarms**
Receive Email, SMS text messages and trap notification of configurable events
- **Surge protected outlets**
Eliminate potentially damaging voltage spikes
- **Circuit breaker**
Overload and connected equipment protection
- **Rack mountable design**
Holes on each side of the enclosure for optional rack-mounting kit (BRKT RM RPM1521)
- **Warranty**
3-years parts and labor

- **\$30,000 Minuteman Platinum Protection Plan (US and Canada only)**



RPM1521 2-port 120V (rear)



RPM1521 (front)

8 and 16-Port Remote Power Manager

Standard features include:

- **Access from anywhere**
Allows rebooting from any internet-enabled device via a secure connection
- **Conserve energy and prevent lockups**
Allows scheduling of tasks
- **Secure management**
Offers password-protected security levels
- **No special apps or installs**
Configure and control RPM units worldwide through most standard web browsers using a single network IP address
- **Versatile installations**
10-ft power cord and rack mount hardware for a wide range of installations
- **Power for all of your devices**
15 and 20-amp capacities, 120 and 208VAC
- **True RMS load meter and LCD display**
- **1U / 0U convertible or 0U vertical-only**

RPM20161VN and RPM20162VI 16-port Remote Power Manager

- **SNMP and DNS Support**
- **Warranty**
3-years parts and labor



RPM1581HVN 8-port Remote Power Manager front



RPM2082HVI 8-port 208V Remote Power Manager (front)

Specifications *Complete spec table at minutemanups.com/rpm*

Model No.	RPM1521	RPM1581HVN	RPM20161VN	RPM2082HVI	RPM20162VI
Input and Output Voltage	120	120	120	208	208
Install Format	1U	1U / 0U	0U	1U / 0U	0U
Dimensions (in)	7.17 x 4.90 x 1.70	1.73 x 3.54 x 17.01	2.2 x 1.73 x 49.02	1.73 x 3.54 x 17.01	2.2 x 1.73 x 49.02
Input Power Cord	IEC320 C14 to 5-15P	IEC320 C19 to 5-15P	IEC320 C19 to 5-20P	IEC320 C19 to 6-20P	
Cord Length (ft)	6	10		10	
Receptacles (Qty - Type)	2 - 5-15R	8 - 5-15/20R	16 - 5-15/20R	8 - IEC320 C13	14 - IEC320 C13 2 - IEC320 C19
Input Circuit Breaker	12A	15A	20A	15A	20A
Maximum Capacity	12A	12A	16A	12A	16A
Display Type	LED - Unit/Equipment Status	LCD - Amperage		LCD - Amperage	
Support Data Encryption	-	SSL / HTTPs		SSL / HTTPs	
Power On/Off Sequencing	✓	✓		✓	
Event Alert Types	Email / Trap / SMS	Email / Trap / Audible		Email / Trap / Audible	
SYSLOG Support	Yes	Yes (w/SW Utility)		Yes (w/SW Utility)	
Safety Certification	CE Certified	UL60950-1		UL60950-1	

OEPD Power Distribution Units (PDU)

8-24 Outlet solutions for safely distributing power to equipment

Complete your power system installation with high quality PDU solutions from Minuteman. OEPD series PDUs feature lengthy power cords, versatile configuration options, and a host of premium features, all at an incredible value.

Minuteman's robust PDU line offers products ranging in capacity from 15 to 30 Amps, in both vertical and horizontal orientations. In addition, select models feature surge suppression and load metering. OEPD power cords are strain-relieved with molded plugs, and use heavy-gauged cables. All models have an external ground stud.



OEPD1415HVA (top) OEPD1420HV (bottom)
Power Distribution Units

Key Product Line Features



Amp Meter
Real-time Monitor



208V Available
Tel/network solution



Warranty
Limited Lifetime

Applications



Data Center/Rack
Server, Network



Communications
Telephone Systems



Security
DVR, IP-Video

Features

- Longer power cords**
Most Minuteman PDU units have 15-ft power cords, eliminating the need for 6-, 8-, or 10-ft alternatives
- More standard outlets**
Minuteman PDU units have 6, 8, 10, 14, 18, 20, or 24 outlets. Most of the Minuteman PDUs have additional front outlets for improved access
- Configuration versatility**
Minuteman PDU units have a multi-form factor with 1U and 0U configurations allowing for either horizontal or vertical placement. 1U products ship with a stand-off mounting bracket, at no additional cost, that allows for vertical installation on most racks and enclosures
- Locking input plugs (L)**
Select models (L) feature locking input plugs for added security
- Surge protection (OES)**
OES models provide surge protection for connected devices
- Load-metering (A)**
Amp-metered units (A) are available to display connected equipment loads
- High standards**
PDUs are listed with higher UL 60950-1 standards. All PDUs are compatible with any data center or network installation
- Cost effective**
More outlets, longer cords and more features are what make the OEPD Series the best value today. The features are all standard with the series
- Higher reliability**
Designed to provide maximum uptime, Minuteman PDUs' switchless design and on/off LEDs provide greater MTBF (Mean Time Between Failure)
- Protected investment**
Minuteman surge-protected (OES) PDUs carry a limited lifetime warranty and \$50,000 Minuteman Platinum Protection Plan (US and Canada only)

Models *Complete spec table at minutemanups.com/mmpd*

Model	Outlet Type	Qty (t/r)	Mounting Format	Locking	Surge	Metered
Generic PDU w/o Minuteman Label: 120VAC Input/Output, 15-Amp						
OEPD615HV	NEMA 5-15R	6 / 0	1U Horiz. / 0U Vert.	-	-	-
OEPD615V12PC6	NEMA 5-15R	6 / 0	0U Vert.	-	-	-
OEPD815HV	NEMA 5-15R	2 / 6	1U Horiz. / 0U Vert.	-	-	-
OEPD1415HV	NEMA 5-15R	6 / 8	1U Horiz. / 0U Vert.	-	-	-
OEPD1415HVA	NEMA 5-15R	6 / 8	1U Horiz. / 0U Vert.	-	-	✓
OEPD1815V48	NEMA 5-15R	18 / 0	0U Vert.	-	-	-
OEPD2415V62	NEMA 5-15R	24 / 0	0U Vert.	-	-	-
OEPD1020HV	NEMA 5-15/20R	2 / 8	1U Horiz. / 0U Vert.	-	-	-
OEPD1020HVL	NEMA 5-15/20R	2 / 8	1U Horiz. / 0U Vert.	✓	-	-
OEPD1420HV	NEMA 5-15/20R	6 / 8	1U Horiz. / 0U Vert.	-	-	-
OEPD2420V62	NEMA 5-15/20R	24 / 0	0U Vert.	-	-	-
OEPD2420V62L	NEMA 5-15/20R	24 / 0	0U Vert.	✓	-	-
OEPD2420VA62L	NEMA 5-15/20R	24 / 0	0U Vert.	✓	-	✓
OEPD2430V48DCL	NEMA 5-15/20R	24 / 0	0U Vert.	✓	-	-
OES620V16PC6	NEMA 5-15/20R	6 / 0	0U Vert.	-	✓	-
Generic Surge-protected PDU w/o Minuteman Label: 120VAC Input/Output						
OES1015HV	NEMA 5-15R	2 / 8	1U Horiz. / 0U Vert.	-	✓	-
OES1020HV	NEMA 5-15/20R	2 / 8	1U Horiz. / 0U Vert.	-	✓	-
OES1020HVL	NEMA 5-15/20R	2 / 8	1U Horiz. / 0U Vert.	✓	✓	-
Generic PDU w/o Minuteman Label: 208VAC Input/Output						
OEPD1220C13HVL ¹	IEC320 C13	12 / 0	1U Horiz. / 0U Vert.	✓	-	-
OEPD2430V48DCL ¹	IEC320 C13	24 / 0	0U Vert.	✓	-	-
Minuteman Labeled PDU: 120VAC Input/Output, 15-Amp						
MMPD615V12PC6	NEMA 5-15R	6 / 0	0U Vert.	-	-	-
MMPD1815V48	NEMA 5-15R	18 / 0	0U Vert.	-	-	-
MMPD2415V62	NEMA 5-15R	24 / 0	0U Vert.	-	-	-

¹8.4' power cord

MMS and LineGuard Surge Protectors

Protect non-critical equipment from spikes and surges

Minuteman's MMS Series surge protection products are perfect for protecting devices which will not be required during an outage from damaging power surges and spikes. Models ranging from travel friendly, single-outlet wall taps to feature-rich rotating outlet strips are available, and each provides exceptional protection at a tremendous value.

Minuteman's LineGuard products provide protection for the data lines connecting valuable security and network devices, preventing transients in the data cable from causing catastrophic damage.



MMS130RC Slimline Surge Protector



MMS-CAT5-LAN-RJ45 LineGuard Surge Protector

MMS7120RCT Rotating Outlet Surge Protector



Key Product Line Features



X3 MOV Surge Technology
Advanced Hardware Prevents Fire



Warranty
Limited Lifetime



Home Theater
AV Equipment



Office / Workstation
Non-critical Peripherals



Security
IP-Video, DVR, POE

MMS Features

- **Substantial surge ratings**
Ratings up to 4320J ensure maximum protection
- **X3 MOV safety**
Advanced technology prevents fire from surges
- **Versatile solutions**
Rotating outlet and slimline products provide innovative solutions for powering your equipment
- **Phone/fax/network (T) and Coax (C) protection**
Protect from damaging spikes and surges over data lines
- **UL1449, UL1363 and cUL certified**
Select models also UL452 certified
- **Worry-free protection**
Limited Lifetime Warranty¹ and connected equipment protection up to \$200,000



Models *Complete spec table at minutemanups.com/mms*

Model	Joule Rating	Outlet Qty	Rotating Outlets	Phone/Fax	Coax	Dimensions (in.)	Cord Length	Protect. Indicator
MMS110	540	1	-	-	-	2.13 x 2 x 2.38	-	✓
MMS130C	1080	3	-	-	✓	4.02 x 4.02 x 2.28	-	✓
MMS362P	241	6	-	-	-	10.79 x 3.27 x 3.15	3 ft.	-
MMS370	1080	7	-	-	-	12.76 x 4.25 x 1.77	6 ft.	✓
MMS370T	1080	7	-	✓	-	12.76 x 4.25 x 1.77	6 ft.	✓
MMS570	1440	7	-	-	-	13.9 x 4.41 x 1.54	9 ft.	-
Rotating Outlet Series								
MMS780R	2160	8	6	-	-	14.02 x 3.54 x 2.28	7 ft.	✓
MMS760RCT	2160	6	6	✓	✓	6.26 x 4.25 x 2.52	-	✓
MMS7100RT	2880	10	5	✓	-	12.52 x 4.41 x 1.89	7 ft.	✓
MMS7120RCT	4320	12	8	✓	✓	11.89 x 6.02 x 2.17	9 ft.	✓
Slimline Series								
MMS130RC	1080	3	1	-	✓	8.125 x 5 x 3.375	-	✓
MMS660S	540	6	-	-	-	9.14 x 5.95 x 1.07	-	✓
MMS664S	1080	6	-	-	-	15.99 x 5 x 1.5	4 ft.	✓
MMS686SCT	3420	8	-	✓	✓	16.85 x 7 x 1.5	6 ft.	✓

LineGuard Features

- **Solid-state, nanosecond response to over-voltage surges on data and POE lines**
- **Lightning rated**
- **Interlocking wall-mount design with single ground**
- **UL497B Listed**

Models *Complete spec table at minutemanups.com/lineguard*

Model	Termination Type	Dimensions (in.)	Response Time	External Ground	POE Protection	Wall Mount
MMS-CAT5-LAN-RJ45	RJ45	4.25 x 4.25 x 1.5	1-5ns	✓	-	✓
MMS-CAT5-POE-RJ45	RJ45	4.25 x 4.25 x 1.5	1-5ns	✓	✓	✓
MMS-CAT6-LAN	110 Punch	4.25 x 4.25 x 1.5	1-5ns	✓	-	✓
MMS-CAT6-POE	110 Punch	4.25 x 4.25 x 1.5	1-5ns	✓	✓	✓



Your Partner in Power Protection

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