

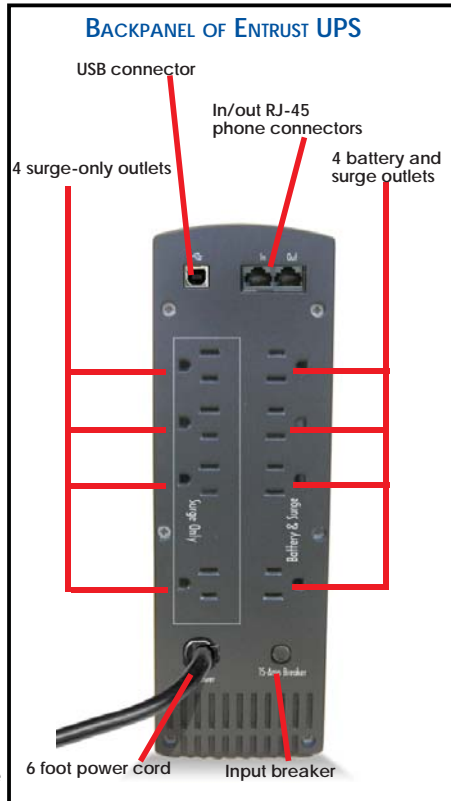
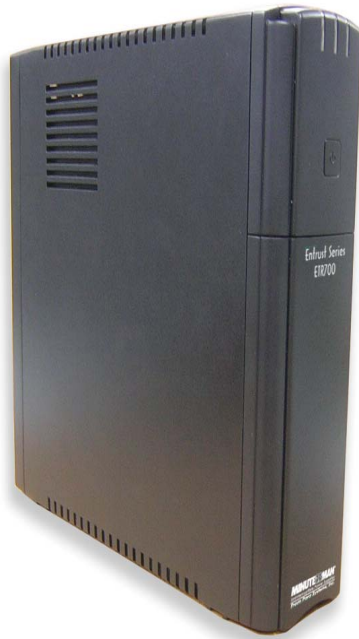


ETR500 - 500VA/300W • ETR700 - 700VA/420W
 ETR1000 - 1000VA/600W • ETR1500 - 1500VA/900W

Ideal for:

- Computers and workstations
- Small servers
- Network devices

The Minuteman[®] Entrust[™] Series Line Interactive Uninterruptible Power Supply (UPS) line from Para Systems, Inc., combines full-featured voltage regulation, spike and surge suppression and battery backup into an attractive, slim-line case style. With sizes ranging from 500VA to 1500VA, the Entrust Series is versatile enough to support most computers or workstations in addition to small servers and network devices. There are eight total outlets on each model. Four provide surge protection and four provide surge and battery protection.



Built on the success of the Minuteman[®] MBK-E Series of UPS, the Entrust Series has:

- Sizes range from 500VA 1500VA
- Full feature boost/buck voltage regulation
- Battery backup
- SentryPlus software
- Enhanced features
- Larger capacities
- Lower cost than comparable competitive units
- Attractive, slim-line case

All models include the Minuteman[®] SentryPlus monitoring and auto-shutdown software, are USB compatible and can be configured to monitor and control multiple Minuteman UPS models over a network from a single application console.

**PARA SYSTEMS, INC. ...
 HOME OF MINUTEMAN[®]
 POWER TECHNOLOGIES**

Para Systems, Inc., with its Minuteman[®] line of power protection products, is a leading provider of uninterruptible power supplies and power management hardware and software for mission-critical equipment such as network equipment, computers, telecommunications systems, security systems and home theater systems. Its UPS products range from 325VA standby units to true sine wave, line-interactive, and on-line models rated up to 10kVA.

PRELIMINARY January 16, 2007

Minuteman® Entrust Series Line Interactive UPS Specifications

Specifications	ETR500	ETR700	ETR1000	ETR1500
Maximum load (VA/Watts)	500VA/300W	700VA/420W	1000VA/600W	1500VA/900W
Battery rating	(1) 12V/5AH	(1) 12V/7AH	(2) 12V/7AH	(2) 12V/9AH
Unit weight (lbs.)	13.23 lb	15.44 lb	25.89 lb	29.33 lb
Input capacity	10 Amps	15 Amps		
Unit dimensions (H x W x D)	10.8" x 3.4" x 10.9"	10.8" x 3.4" x 16.25"		
GENERAL SPECIFICATIONS				
Topology	Single boost/buck line interactive, simulated sine wave			
Warranty	Three-year limited warranty, Platinum Protection Plan			
AC INPUT				
Number of phases	Single (2W + G)	Power cord	NEMA 5-15P on a 6-ft. power cord	
Acceptable input voltage	0 - 160 VAC	Surge energy rating	320 Joules	
Input voltage range (Normal mode)	90 - 150 VAC (+/- 3%)	Let through	5%, 6kV ring wave ANSI C62.41-1991 Cat 3	
DC start capability	Yes, (defaults to 60Hz)	Response time	0 ns (normal mode), < 5ns common mode	
Frequency	50Hz/60Hz (auto-sensing (60Hz default))	AC leakage current	>1 mA	
Input protection	Re-settable circuit breaker			
AC OUTPUT (NORMAL MODE)				
Input voltage	120VAC	Output voltage		
Load power factor	0.6	- Waveform	Same as Input	
Transfer time	6-10 ms	- Line mode voltage	Factory preset value 120V	
Output frequency	Same as Input	- Boost mode voltage	+16% (87V - 105V) (+/- 3%)	
Short circuit protection	Re-settable circuit breaker and electronically limited	- Buck mode voltage	-14% (130V - 155V) (+/- 3%)	
Overload capability	≤110% - 5 minutes ≥120% - immediate shutdown	- Line mode voltage regulation	101 - 133VAC (+/- 3%)	
Outlets	(4) - surge only (4) - battery & surge with (2) transformer blocks	- Efficiency	Normal mode > 90%	
AC OUTPUT (BATTERY MODE)				
Output voltage	120VAC	Battery runtime (full load)	≥ 2 minutes	
- Waveform	Stepped sine wave (simulated sine wave)	Battery runtime (half Load)	≥ 5 minutes	
- Output voltage	Nominal 120 VAC	Efficiency	> 58%	
- Battery mode voltage Regulation	115V +/- 6% until LBW	Short circuit protection	Active electronic (current limit)	
- Peak voltage	190V peak @ load	Overload capability	≤110% -10 seconds ≥120% - immediate shutdown	
Output frequency & regulation	50/60Hz +/- 0.5Hz			
BATTERIES				
Replacement	Hot swappable	Recharge time	8 Hours to 90% After full load discharge	
ENVIRONMENTAL				
Operating temperature	0°C to +40°C (up to 1500 meters above sea level) 0°C to +35°C (1501 to 3000 meters above sea level)	Operating altitude	0 - 3000 meters	
Storage temperature	-15°C to +45°C	Relative humidity	0 - 95% non-condensing	
MECHANICAL				
Data lie protection	Single line input/output RJ45	Monitoring software	Includes SentryPlus software	
Communications	USB	Safety	UL1778, cUL (CSA 22.1), CE, FCC Class B	

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