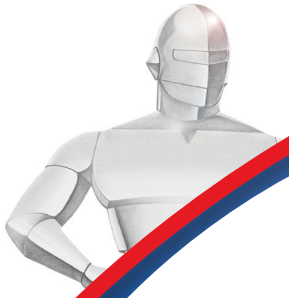
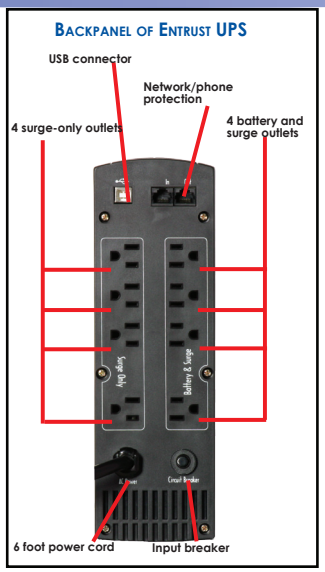
MINUTEMAN®
Power Technologies
From Para Systems, Inc.

Minuteman® Entrust™ UPS Series
Line Interactive Uninterruptible Power Supply

ETR500 - 500VA/300W • ETR700 - 700VA/420W
ETR750 - 750VA/420W • ETR1000 - 1000VA/600W
ETR1500 - 1500VA/900W







The Minuteman Entrust Series UPS is an exciting new UPS line that provides users all the features, usually available in higher-priced UPS products, to protect your valuable equipment, offering voltage regulation, spike and surge protection and battery backup.

Each unit has four outlets that provide backup battery support along with spike and surge protection. There are an additional four spike and surge protected outlets for accessory devices that don't require battery support. In addition, two of the outlets are specifically spaced to support equipment with transformer blocks.

The small, uniquely designed, footprint of the Entrust UPS is ideal for placement on or under a desk. All models in the Series can also be installed vertically on a shelf in a rack or cabinet installation.

Additionally, Entrust UPS products come with all the award-winning service and support capabilities offered by Para Systems, Inc., including a three-year limited warranty, (two-years on the battery), and a $75,000 Platinum Protection Plan (USA and Canada only).

Entrust Features

- **USB Communications** – The Entrust Series has HID-compliant USB communication that is automatically recognized by all Windows® software versions and require no special drivers.
- **Buck/Boost Voltage Regulation** – Provides a stable AC source during less than optimal power conditions without constant use of internal batteries.
- **Slim-line Profile** – Provides users with the ability to install the Entrust UPS in a variety of settings (rack shelf, floor, desktop, etc.).
- **RoHS Compliant**–Compliant with European Economic Unions directive on the reduction of hazardous substances (RoHS) in electronic equipment.
- **SentryPlus™ Software** – SentryPlus auto-shutdown and monitoring software is included with every unit. No special downloads or coupons are required.
- **Larger Load Capacities** – Para Systems has increased the capacities of all models in the Entrust UPS line, allowing the units to support larger power requirements.

TARGET DISTRIBUTING

800.873.5528
WWW.TARGETD.COM

Applications

- **Desktop/laptop workstations**
- **Small business phone systems**
- **VoIP handsets**
- **Network devices**

Minuteman® Entrust Series Line Interactive UPS Specifications

Specifications	ETR500	ETR700	ETR750	ETR1000	ETR1500
Maximum load (VA/Watts)	500VA/300W	700VA/420W	750VA/420W	1000VA/600W	1500VA/900W
Battery rating	(1) 12V/5AH	(1) 12V/7AH	(1) 12V/9AH	BM0040	BM0041
Unit weight (lbs.)	13.23 lb (6.0kg)	15.44 lb (7.0kg)	15.44 lb (7.0kg)	28.89 lb(13.1kg)	29.33 lb (13.3kg)
Input capacity	8 Amps	10 Amps		12 Amps	
Unit dimensions (H x W x D)	10.8 x 3.43 x 10.9 in (274.4 x 87 x 277.2 mm)			10.8 x 3.43 x 16.4 in (274.4 x 87 x 412.5 mm)	
General Specifications					
Topology	Single boost/buck line interactive, simulated sine wave				
Warranty	(USA and Canada only) 3-year limited warranty, Platinum Protection Plan 2-year warranty on battery				
AC Input					
Number of phases	Single (2W + G)				
Input voltage (Acceptable input voltage)	120VAC (0 - 160VAC)				
Input voltage range (Normal mode)	90 - 150VAC				
DC start capability	Yes, (defaults to 60Hz)				
Power cord	NEMA 5-15P on a 6-ft. power cord				
Surge energy rating	320 Joules				
Let through	5%, 6kV ring wave ANSI C62.41-1991 Cat 3				
Response time	0 ns normal mode, < 5 ns common mode				
AC leakage current	<1 mA				
AC Output (Normal Mode)					
Load power factor	0.6				
Output frequency	Same as Input				
Short circuit protection	Re-settable circuit breaker and electronically limited				
Overload capability	110% - 5 minutes ≥120% - immediate shutdown				
Output voltage regulation	120VAC: -12.5% to +8.4%				
Waveform	Same as Input				
Boost mode voltage(Buck mode voltage)	Nominal +16% (Nominal -14%)				
Line mode voltage range	105 - 130VAC				
Efficiency	Normal mode > 90%				
AC Output (Battery Mode)					
Output voltage	Nominal 120VAC				
Waveform	Stepped sine wave (simulated sine wave)				
Battery mode voltage regulation	Nominal ± 6% until LBW				
Transfer time	6-10 ms				
Output frequency & regulation	50/60Hz ± 0.5Hz (Unless synchronized to utility)				
Battery runtime (full load/half load)	≥ 2 minutes / ≥ 9 minutes				
Short circuit protection	Active electronic (current limit)				
Batteries					
Replacement	Hot swappable				
Recharge time	8 hours to 90% after full load discharge				
Environmental					
Operating temperature	32°F to 104°F (up to 5,000 ft above sea level (0°C to +40°C (up to 1,500 meters above sea level)				
Operating elevation	32°F to 95°F (5,001-10,000 ft above sea level (0°C to +35°C (1,501 to 3,000 meters above sea level))				
Storage temperature/ Relative humidity	5°F to 113°F (-15°C to +45°C) / 0 - 95% non-condensing				
Mechanical					
Line protection (data/phone)	Single line input/output (RJ-45/RJ-11)				
Outlets	4 - surge only outlets 4 - battery & surge with (2) transformer blocks				
Monitoring software	Includes SentryPlus software				
Communications	USB				
Safety and environment	UL1778, cUL (CSA 22.1), CE, FCC Class B RoHS				

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