

ED6000T/ED6200T 6000VA/4200W  
ED10000T/ED10200T 10000VA/7000W

## On-line, Single-phase Parallel Redundant UPS System

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.

A perfectly regulated, continuous sine wave output with zero transfer time offers guaranteed uptime and compatibility with all equipment types.

- True on-line topology with pure sine wave output
- Single-phase, 208 input, 120/208/240 output options
- Parallel configurations for 6, 10, 12, 20, and 24kVA
- LCD and LED visual indicators
- Extended runtime with external battery packs
- Digital signal processor (DSP) controlled
- Intelligent self-diagnosis
- Emergency Power-off (EPO)
- Communications capability via RS-232 or optional SNMP (2 slots)
- High input Power Factor and low voltage THD
- Energy efficient UPS
- Remotely test the major operating functions of UPS
- Optional maintenance bypass



*Easy to read digital display*



## Full line of Minuteman power technology products:

The Minuteman power technology product line to includes:

- **Uninterruptible Power Supply (UPS) systems**
- **Power Distribution Units (PDUs)**
- **Remote Power Managers (RPMs)**
- **Keyboard-Video-Mouse (KVM) systems**
- **Surge suppressors**
- **Power monitoring and management software**



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## Endeavor 6 and 10 kVA Tower On-line UPS Specifications

MODEL	ED6000T <sup>1</sup>	ED6200T	ED10000T <sup>1</sup>	ED10200T
Topology	Double-Conversion On-Line, True Sine wave			
Maximum Power Capacity	6000VA/4200Watts		10000VA/7000Watts	
INPUT				
Number of Phases	Single (1Ø 2W +G)			
Nominal/ Acceptable Input Voltage	208VAC / 0 - 300VAC			
Voltage Range	160* - 280VAC			
Power Factor Correction	≥98% at Full Load			
Frequency Limits	50/60Hz +/-5Hz autosensing			
Low/High Voltage Transfer Point	160V resets to utility power at 175V or higher / 280V resets to utility power at 265V or lower			
Protection	Re-settable Circuit Breaker			
OUTPUT				
Waveform Type	True Sinewave			
Nominal Voltage	120VAC & 208/240VAC	208/240VAC	120VAC & 208/240VAC	208/240VAC
Voltage Regulation	+/-2% (until Low Battery Warning)			
Frequency	50/60Hz +/-0.2Hz (unless synchronized to utility)			
Voltage T.H.D.	≤3% (Linear load)			
Dynamic Response	+/-5% @ 100% Load change in 100ms			
Transfer Time	0ms			
Slew Rate	≤1Hz / second			
Efficiency (Line Mode)	>87% (Full Load)			
Crest Factor	3:01			
Overload Capacity	≥105% - ≤155% for 160 seconds, ≥156% shutdown immediately			
Protection	Over-Current, Short-Circuit and Latching Shutdown			
PROTECTION AND FILTERING				
Surge Energy Rating/ Capability	1050 J / 6500 Amps total			
Surge voltage let-through	<5% (as a percentage of an applied ANSI C62.41 Cat. A +/-6KV)			
Noise Filter	Normal and common mode EMI/RFI suppression			
Audible Noise at 1 m (3 ft.)	<50dB			

<sup>1</sup> (Has an internal Galvanic isolation step-down transformer)

\* 160 – 280VAC at loads <50% of the rated capacity \* 175 – 280VAC at loads <75% of the rated capacity\* 180 – 280VAC at loads >75% of the rated capacity

### BATTERY

Type	Sealed, Non-Spillable, Maintenance Free, Value Regulated, Lead Acid		
Typical Recharge Time	8 hours from total discharge		
Typical Battery Life	3 - 5 years, depending on the number of charge and discharge cycles, and ambient temperature		
System Voltage	240VDC		
Quantity/Rating	20-12V7.2Ah	20-12V9Ah	
Runtime (full/half load)	8/21 minutes	5/15 minutes	

### ENVIRONMENTAL

Operating Temp (max)	0 to 40°C (+32 to +104°F) ≤2000m (≤+6700 ft) 0 to 35°C (+32 to +95°F) at 3000m (+10,000 ft)		
Storage Temp	-15 to +45°C (+5 to +113°F)		
Operating/Storage Humidity	30 - 90% Non-Condensing		
Storage Elevation	0 to 15,000m (0 to +50,000 ft)		

### PHYSICAL

Size - Net	25.4 x 11.4 x 29.4 in	25.4 x 11.4 x 34.7 in	25.4 x 11.4 x 29.4 in
D x W x H	645 x 290 x 748mm	645 x 290 x 881mm	645 x 290 x 748mm
Weight - Net	275 lb (125 kg)	165 lb (75 kg)	264 lb (120 kg)
Size - Shipping	31.9 x 18.4 x 38.5 in	31.9 x 18.4 x 43.7 in	31.9 x 18.4 x 38.5 in
D x W x H	810 x 468 x 961mm	810 x 468 x 1110mm	810 x 468 x 977mm
Weight - Shipping	313 lb (142 kg)	203 lb (92 kg)	302 lb (137 kg)

### REGULATORY COMPLIANCE

Safety and Approvals	UL 1778, cUL (CSA 22.2 no. 107.1), CE (EN62040-1-1)		
EMC	CE (EN62040-2, EN61000-3-2, EN61000-3-3), FCC Class A		

### OPTIONAL EXTERNAL BATTERY PACKS

Model	EDBP6000T	EDBP10000T
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### OPTIONAL PARALLEL DISTRIBUTION / BYPASS MODULE KITS

ED6-MTBS2 - External Maintenance Bypass Kit for ED12000RM and ED12000T, ED6-MTBS4 - External Maintenance Bypass Kit for ED18000RM(T), ED24000RM(T) AND ED20000T, and ED6-PARALLEL - Parallel Cable Kit

### OPTIONAL COMMUNICATIONS

ED6-AS400 - Optional AS400 card, and SNMP-NET Card - Network interface card for SNMP applications. Built in communications capability. Minuteman SentryPlus Software.