

Endeavor 6-24 kVA Tower On-line UPS Uninterruptible Power Supply Systems

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 online 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

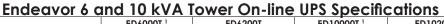




Full line of Minuteman power technology products:

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



MODEL	ED6000T 1	ED6200T	ED10000T 1	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	Oms					
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					

- ¹ (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	ratea capacity					
BATTERY						
Туре	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	20-12	2V7.2Ah	20-12V9Ah			
Runtime (full/half load)	8/21 minutes 5/15 r		minutes			
ENVIRONMENTAL						
Operating Temp (max)	0 to 40°C (+32 to +104°F) \leq 2000m (\leq +6700 ft)					
Characa Taraca	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		
DxWxH	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)	374 lb (170 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)	412 lb (187 kg)	302 lb (137 kg)		
REGULATORY COMPLIANCE	01010 (142 kg)	200 10 (72 kg)	112 IS (107 kg)	002 10 (107 kg)		
Safety and Approvals	UL 1778, cUL (CSA 22.2 no. 107.1), CE (EN62040-1-1)					

CE (EN62040-2, EN61000-3-2, EN61000-3-3), FCC Class A **EMC**

OPTIONAL EXTERNAL BATTERY PACKS

EDBP6000T EDBP10000T Model

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

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



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