

**True On-line UPS Provides Maximum Protection**

**Endeavor® 6-10kVA Series models**

ED6KTF  
ED10KTF

*Capacity*

- Small     Midsize     Enterprise level

*Applications*

- Workstations     Network/Server     Phone & Security Systems

**Endeavor® 6-10kVA Uninterruptible Power Supply**

The Minuteman® Endeavor™ 6/10kVA Tower Series UPS combines transient free pure sine wave output and extended runtime capability 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.

**Ultra-Configurable Value for Large Systems**

The Endeavor Series is available in two models with configuration options and multiple voltage configurations to ensure a proper solution is available for most applications. Both Endeavor models include 208-240V input and 120/208/230/240VAC output. Additional accessories, including an external maintenance bypass switch and an SNMP communication card further tailor the Endeavor to every individuals need.

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

**OPTIONS**

- External maintenance bypass switch
- SNMP communications card
- Battery Pack: BP240TWR

**Typical Applications**

- Network Data Centers
- Remote Network Closets
- Security Systems
- Highly-sensitive Equipment
- Education Networks
- DAS and Small Cell Systems
- Telephone and VOIP Systems

- True on-line, double-conversion topology
- 1.0pf output power factor\*
- Configurable output voltages: 208/220/230/240VAC
- Output Isolation transformer for full-load 120VAC support
- Extended runtime via external battery packs
- Real-time LCD display
- Automatic Internal Bypass
- Maintenance Bypass
- Independent Battery Bypass
- DC Start capability
- USB Communication Port
- Simultaneous USB/RS232 communications
- SNMP option slot
- EPO port standard
- Smaller, compact case design
- Increased efficiency
- ECO Mode
- Variable-speed fan control
- Added Reliability
- 1-year standard warranty
- RoHS2 compliant
- cTUVus certified

\*NOTE: The output capacity must be de-rated to 90% when the output voltage is configured for 208VAC.



# Minuteman® Endeavor® 6-10kVA Tower Specifications

General Features	FEATURES	ED6KTF	ED10KTF
	Maximum Power Capacity		6000VA
Default Watt Capacity*		6000 Watts	10000 Watts
Power Factor*		1.0	
Topology		Double-conversion on-line	
Input Type		Hardwire Terminal Block (L-N-G)	
Output Type		Hardwire Terminal Block (L-N-G)	
Input	Number of Phases	Single ( $\phi$ 2W + G)	
	Nominal Voltage	208VAC ~ 240VAC	
	Acceptable Input Voltage	0 – 300VAC	
	Voltage Range	110 – 300VAC $\pm$ 3%	
	Power Factor Correction	$\geq$ 99% at Full Load	
	Frequency Limits	50/60Hz $\pm$ 4Hz	
	Low Voltage Transfer Point	110VAC $\pm$ 3% at 0-60% Load 176VAC $\pm$ 3% at 60%-100% Load	
	High Voltage Transfer Point	120VAC $\pm$ 3% at 0-60% Load 186VAC $\pm$ 3% at 60%-100% Load	
	Input Protection	Re-settable Circuit Breaker and Fuse	
Output: Online	Nominal Range	240VAC (208/230/240 configurable) / 120VAC	
	Voltage Regulation	$\pm$ 2%	
	Frequency Range	50/60Hz $\pm$ 4Hz	
	Efficiency (Online Mode)	$\geq$ 89% (at Full Load)	
Output: Battery	Waveform Type	True Sine Wave	
	Nominal Voltage	240VAC (208/230/240 configurable) / 120VAC	
	Voltage Regulation	$\pm$ 2%	
	Frequency Range	50/60Hz +/-0.1Hz (unless synchronized to utility)	
	Voltage T.H.D.	$\leq$ 2% @ 100% Linear Load; $\leq$ 8% @ 100% Non-linear Load	
	Dynamic Response	200ms to normal vootage $\pm$ 2%	
	Transfer Time	0 ms	
	Slew Rate	60V/ms	
	Crest Factor	2.6:1 max	
Overload Capacity	$\geq$ 100.1% - $\leq$ 110% for 30 secs. / $\geq$ 110.1% - $\leq$ 130% for 10 secs. / $\geq$ 130.1% for 1 sec.		
Battery	System Voltage	240VDC	
	Battery Type	Sealed, Non-Spillable, Maintenance Free, Valve Regulated Lead Acid (VRLA)	
	Internal Battery Quantity (Default)	20	20
	Runtime: Full Load (minutes)	5 minutes	3 minutes
	Runtime: Half Load (minutes)	14 minutes	9 minutes
Surge Protection	Surge Energy Rating	880J	
	Surge Current Capability	1000A	
	Surge Response Time	8us	
	Surge Voltage Let-through	2KV	
Environ-mental	Audible Noise at 1m (3-ft.)	<55dB at 1 meter	<58dB at 1 meter
	Operating/(Storage) Temperature	0°C ~ +40°C / (-15°C ~ +60°C)	
	Relative Humidity	10 – 95% Non-condensing	
	Altitude	<1000m to Full Power (De-rate by 1% for every 100m above 1000m)	
Physical	Net Size – LxWxH (mm)	22.1" x 9.8" x 32.5" (561.1 x 250 x 826.5)	
	Shipping Size – LxWxH (mm)	28.5" x 14.6" x 37.0" (725 x 370 x 940)	
	Net Weight – (Kgs.)	237 lbs. (107.5)	274.5 lbs. (124.5)
	Shipping Weight (Kgs.)	272.3 lbs. (123.5)	309.8 lbs. (140.5)
Regu-latory	Safety and Approvals	cTUVus, CE, RoHS2	
	EMC Verification	FCC Class A	
	Warranty	1 year parts and labor	

