

*Capacity*

- Small     Midsize     Enterprise level

*Applications*

- Network/Server     VoIP Systems     IP/Analog Phone & Security



## On-Line UPS, Comprehensive Protection

Minuteman's Encompass Series delivers the comprehensive protection only offered by a true on-line UPS. By totally regenerating the incoming AC signal through double-conversion technology, an on-line UPS provides an impenetrable "electrical firewall," providing the most fail-safe power protection available.

Designed to protect the most critical equipment used in data centers, voice and data communications, security systems, and light industrial applications. The Encompass Series is SNMP-capable (card optional) and allows full-device management using Minuteman's SentryHD™ power monitoring and control software.

The Encompass product line is a value-priced on-line UPS solution that provides an outstanding set of features, true sinewave output, a three-year warranty (including batteries), and is designed to meet the reliability expectations of even the most demanding critical applications. Two form factors are available in the Encompass Series: a tower-only version (EC-LCD) and a rack/tower version (EC-RT).



*Encompass LCD Tower*

## Encompass Series Features

- True on-line, double-conversion technology
- Easy-to-read LCD display
- 0.9 output power factor
- Highly-efficient, economy mode option
- Output receptacle control
- Independent Battery Bypass – allows the UPS to provide voltage regulation and spike/surge protection either with dead batteries or without batteries
- Tool-less battery replacement
- Hot-swappable battery replacement
- Cold start capable
- Automatic internal bypass
- Simultaneous USB, RS232 and SNMP communications
- Compatible with Minuteman's SentryHD software
- SNMP compatible (with optional card)
- Dedicated EPO port
- Site wiring fault indicator
- Telephone/Network protection port
- Full three-year warranty (including batteries)
- Green UPS design (RoHS2 compliant)
- \$150,000 platinum protection guarantee



*Encompass Rack/Tower*

## Typical Applications

- Medical/Healthcare (non-life saving applications)
- Laboratory equipment
- Security systems
- Highly-sensitive equipment
- Education networks

# Minuteman® Encompass On-line UPS Specification

UPS Model	EC1000RT2U EC1000LCD	EC1500RT2U EC1500LCD	EC2000RT2U EC2000LCD	EC3000RT2U EC3000LCD
<b>General</b>				
Topology	Double-conversion, On-line, True Sine Wave Output			
VA Rating	1,000VA	1,500VA	2,000VA	3,000VA
Load Capacity	900 Watts	1,350 Watts	1,800 Watts	2,700 Watts
Power Factor	0.9			
Input	5-15P		5-20P	L5-30P
Power Cord Length	10-ft. Power Cord 6-ft. Power Cord		10-ft. Power Cord 6-ft. Power Cord	10-ft. Power Cord 6-ft. Power Cord
Receptacles	(6) 5-15R		(6) 5-15/20R (8) 5-15/20R	(6) 5-15/20R / (1) L5-30R (8) 5-15/20R / (1) L5-30R
Installation Type	Rack/Tower Tower or Floor			
<b>Input</b>				
Nominal Voltage	120VAC			
Acceptable Input Voltage	0 – 160VAC			
Frequency Range	50/60Hz, ±6Hz, Auto-sensing			
Power Factor Correction	≥99% at full load			
Efficiency	>89% Full Load, On-line Mode (AC – AC) >96% Full Load, Economy Mode			
<b>Output (Non-battery Operation)</b>				
Voltage Default	120VAC (110/127VAC adjustable)			
Voltage Regulation	±2% of nominal voltage			
Frequency Range	50/60Hz, ±6Hz			
Efficiency (Line Mode)	>89% (Full Load)			
<b>Output (Battery Operation)</b>				
Nominal Voltage	120VAC (110/127VAC adjustable)			
Voltage Regulation	Nominal ±2% (until Low Battery Warning)			
Frequency	50/60Hz, ±0.2Hz (unless synchronized to utility)			
Voltage T.H.D.	≤3% (Full Linear Load)			
<b>Batteries</b>				
Battery Type	Sealed, non-spillable, maintenance-free, valve-regulated lead acid			
Replacement Module	BM0069 BM0076	BM0070 BM0077	BM0071 BM0078	
Runtime (Half Load)	10 minutes	15 minutes	10 minutes	10 minutes
Runtime (Full Load)	2 minutes	5 minutes	3 minutes	3 minutes
<b>Environmental</b>				
Operating Temp. (Max)	0° to 40°C (+32° to +104°F)			
Operating Humidity	10% to 90% Non-condensing			
Operating Elevation	0 to 3,000m (0 to +10,000 ft.)			
<b>Regulatory Compliance</b>				
Safety and Approvals	cULus (UL1778 5 <sup>th</sup> Edition & CSA 22.2 no. 107.3-14 /R: 2014) FCC Class A, CE certified, RoHS2 (EU Directive 2015/863/EU)			

Rack/Tower Model	EC1000RT2U	EC1500RT2U	EC2000RT2U	EC3000RT2U
<b>Physical</b>				
Unit Size (L x W x H) (with rack ears installed)	16" x 18.9" x 3.5" 407 x 479 x 88mm	19.2" x 18.9" x 3.5" 487 x 479 x 88mm	23.7" x 18.9" x 3.5" 602 x 479 x 88mm	23.7" x 18.9" x 3.5" 602 x 479 x 88mm
Unit Weight	24.3 lbs. / 11 Kgs.	44.1 lbs. / 20 Kgs.	59.5 lbs. / 27.0 Kgs.	59.5 lbs. / 27.0 Kgs.
Tower Model	EC1000LCD	EC1500LCD	EC2000LCD	EC3000LCD
<b>Physical</b>				
Unit Size (L x W x H)	15.9" x 6.1" x 10.2" 403 x 154 x 258mm	17.4" x 6.8" x 11.4" 440 x 171 x 288mm	22.4" x 7.6" x 12.6" 567 x 192 x 320mm	22.4" x 7.6" x 12.6" 567 x 192 x 320mm
Unit Weight	28.2 lbs. / 12.8 Kgs.	48.1 lbs. / 21.8 Kgs.	73.0 lbs. / 33.1 Kgs.	73.0 lbs. / 33.1 Kgs.
<b>Extended Battery Packs (For LCD models only)</b>				
BP Part Number	BP24XL	BP48XL	BP72XL	BP72XL



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