

EnterprisePlus LCD[™] Series Sine Wave UPS

Standard: E750RT2U / E1000RT2U / E1500RT2U / E2000RT2U / E3000RT2U

Extended: E750RTXL2U / E1000RTXL2U / E1500RTXL2U / E2000RTXL2U E3000RTXL2U

 $\ensuremath{\mathsf{NC}}$ Models: add $\ensuremath{\mathsf{NC}}$ to model numbers for pre-installed network card

Power & Versatility - Enhanced

The latest in Minuteman's popular Enterprise Series, the EnterprisePlus LCD offers users more of what has made the series one of our best selling lines. New features include lower cost standard runtime models, an informative LCD Display, and additional outlets vs. previous models.

Pure Power for Sensitive Equipment

The EnterprisePlus LCD Series of UPSs offer complete protection from all electrical problems, including spikes, surges, sags, brownouts, and blackouts, in a versatile rack/tower convertible format. True sine wave electrical output ensures the best power for sensitive electronic equipment.

Upgraded Features

The EnterprisePlus LCD features many upgrades from previous generations, including an LCD status display which shows the following:

- Input / Output voltage and frequency
- · UPS and battery mode / status
- Load capacity & Error Codes
- · Estimated runtime based on connected load

In addition to the LCD display, EnterprisePlus LCD models offer users their choice of runtime:

- Standard Runtime models (RT2U) utilize only internal batteries and are available at a lower cost
- Extended Runtime models (RTXL2U) feature the ability to add external battery packs for greatly increased runtimes
- Network Card models (NC) feature a pre-installed SNMP-NV6 network card

Features

- 0.8 & greater power factor get increased capacity without migrating to larger models
- Load shedding three power banks (2 switchable, 1 always-on for critical loads) allow equipment prioritizing for increased runtime
- Independent Battery Bypass™ provides voltage regulation with surge and spike protection even when batteries are weak or dead.
- Virtually unlimited runtime with XL Models no limitation on the number of external battery packs
- Alarm silence button on front panel
- Flexibility in installation rack or tower configurable; optional wallmount kits available
- Small form factor 3.5-inch (2U) rack/tower case

<i>Capacity</i> □ Small	M 🕅	idsize E	Z Enterprise	level
<i>Applications</i> ₩ Worksta	tions	🗹 Netwo	ork/Server	M Phone & Security Systems

- Independent battery pack chargers reduces battery recharge times for XL Models
- Simultaneous DB-9, USB and SNMP communications
- Minuteman® SentryHD™ UPS monitoring and control software included
- · Easy to read LCD display with load/battery meter
- Industry leading product protection with 3-year non-prorated warranty (including batteries)
- Dedicated remote Emergency Power Off (EPO) port
- 120V & 208V 208V models available (1500 & 3000VA models)
- RoHS 2 compliant

Go Green - RoHS 2 Compliant

In accordance with Minuteman's focus on environmental responsibility, EnterprisePlus LCD models were designed to meet the following standards:

 RoHS 2: compliant with the updated directive as defined by the European Economic Union for the reduction of hazardous substances in electronic equipment: 2011/65/EU

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Guaranteed Reliability

- 3-year standard warranty covering all parts and labor, as well as non-prorated coverage of batteries
- 5-year extended warranty plans available
- Platinum Protection
 Plan[®] insures properly
 connected equipment up
 to \$100,000 (U.S. 48 &
 Canada only)



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More Models to Maximize Your Value

Minuteman's EnterprisePlus LCD Series UPSs come in standard and extended runtime, giving you the best value for your needs.

Standard runtime models (RT2U) feature the same specifications and power output properties without extended runtime capability.

Extended runtime models (RTXL2U) add optional XL and EXL battery packs to increase runtimes dramatically. 208V also available.

Network card models (NC) feature a pre-installed SNMP-NV6 network card.

- Standard Runtime: E750RT2U, E1000RT2U, E1500RT2U, E2000RT2U, E3000RT2U
- Extended Runtime (XL): E750RTXL2U, E1000RTXL2U, E1500RTXL2U, E2000RTXL2U, E3000RTXL2U
- 208V (T): E1500RTXLT2U, E3000RTXLT2U
- · Pre-installed Network Card: Add NC to Model #'s

Electrical Characteristics

Output Power Factor

All EnterprisePlus LCD models feature a 0.8 or greater power factor, which increases the watt capacity of the units. Offering larger capacities in smaller UPS VA sizes reduces the overall cost of the UPS solution for a specific load requirement.

Output Voltage

All units in the EnterprisePlus LCD Series produce an electrical signal that does not vary from nominal voltage by more than 5%. Tightly regulating the output voltage increases the quality of power to connected equipment adding to its life expectancy, which lowers the total cost of ownership to users.

Total Harmonic Distortion (THD)

THD is the distortion of a normal AC electrical signal commonly caused when UPS connected loads near the capacity of the units. This distortion can cause internal heat to build up on sensitive equipment not designed to allow for these altered AC signals. The EnterprisePlus LCD UPS maintains an output AC signal, at all times and with linear loads, within 2% of a true sine wave.

Output Receptacle Control

Three banks of receptacles (one always-on for critical devices, two controllable via SentryHD[™] and an SNMP card) allow users to increase runtime for more critical devices during an extended blackout.

Through the use of Minuteman's SentryHD software or communication with the UPS through an Ethernet connection, users can either turn on, off, or reset each segment independently. By reducing the connected load draw on the UPS, the runtime of critical devices can be extended significantly.

Communication Features

The EnterprisePlus LCD UPS provides users with the ability to communicate with the UPS simultaneously through three separate protocols: RS-232, USB and Ethernet. Users can directly connect and manage the UPS from multiple stand-alone, or networked computers. The UPS can provide detailed monitoring and management to many various environments.

Other Features

RoHS 2 Compliancy

Para Systems developed the EnterprisePlus LCD Series to be compliant with the updated RoHS2 Directive as defined by the European Economic Union directive on the reduction of hazardous substances in electronic equipment: 2011/65/EU.

Manual and Automatic Self-Testing

The EnterprisePlus LCD UPS is designed to proactively notify users of any impending faults or failures with the UPS. This allows for preemptive repair or replacement of components or batteries preventing unexpected downtime caused by the UPS.

Dedicated EPO Port

This direct access port allows users to perform an immediate remote shutdown of the UPS in cases of emergency or when access to the UPS is restricted or inconvenient.

¹1500, 2000, and 3000VA models only

Rear View of E750RTXL2U



- 1 Remote EPO Connection
- 2 USB Comm. Port
- 3 RS-232 Comm. Port
- 4 Output Voltage Dipswitch
- 5 Network/Phone Surge Protection
- 6 External Battery Connection
- 7 SNMP Option Slot
- 8 L5-20R 20 Amp Locking Output¹
- 9 Output Receptacles (Load 1)
- 10 Output Receptacles (Load 2)
- 11 Output Receptacles (Load 3)²
- 12 Input Circuit Breaker
- 13 10 ft. Power Cord

¹ 2000VA Model Only, L5-30R on 3000VA ² 750, 1000, & 1500VA Models Only

Battery Characteristics

Extended Runtime Capability

All Extended Runtime (RTXL) models of the EnterprisePlus LCD UPS come standard with internal batteries. To protect critical devices through extended blackouts, the EnterprisePlus LCD UPS Series utilizes external battery packs that can be daisy-chained in unlimited quantities to provide a virtual unlimited amount of battery runtime.

Fast Battery Recharge (XL Battery Packs only)

With independent chargers in each battery pack offered for the EnterprisePlus LCD UPS Series, the maximum recharge time for depleted batteries is 8 hours, no matter how many battery packs are installed on a UPS. Without these chargers, battery charging could take more than an entire day if more than one battery pack is used.

Battery Pack Models

Because each UPS has different battery requirements to support its maximum load capacity, the EnterprisePlus LCD Series uses battery packs sized to match each UPS model:

MODELS:	XL	EXL
E750RTXL2U	BP36RTXL	BP36RTEXL
E1000RTXL2U	BP36RTXL	BP36RTEXL
E1500RTXL2U	BP36RTXL	BP36RTEXL
E2000RTXL2U	BP72RTXL	BP72RTEXL
E3000RTXL2U	BP72RTXL	BP72RTEXL
E1500RTXL2U	BP36RTXL	BM36RTEXL
E3000RTXLT2U	BP72RXTXL	BP72RXTEXL



Battery Technology

All EnterprisePlus LCD units and battery packs use valve-regulated lead-acid batteries (VRLA). These are safe for any type of freight transport. For added protection, all EnterprisePlus LCD UPS models ship with batteries disconnected. A "Quick Installation Guide" is included in each EnterprisePlus LCD box to detail how to connect the batteries before turning on the units.

Hot-Swappable Batteries

The EnterprisePlus LCD UPS offers battery replacement, through the front panel of the UPS, without having to remove the UPS from service. Connected loads are protected from voltage anomalies and spikes and surges while the batteries are being replaced.

SentryHD[™] Management Software Included

Minuteman's SentryHD[™] UPS monitoring and control software comes included with each EnterprisePlus LCD UPS unit at no extra charge. With SentryHD[™] software, users can monitor and control any new, and most legacy, Minuteman UPS products on a connected network from one application session. The ease of installation, ease of use, and backward compatibility makes it the best software of its kind.

 Support for 32/64-bit operating systems Compatible with Windows
 (10.(32-bit/64-bit) & (32-bit/64-bit) / (32-bit/64-bit)) / (32-bit/64-bit) / (32-bi

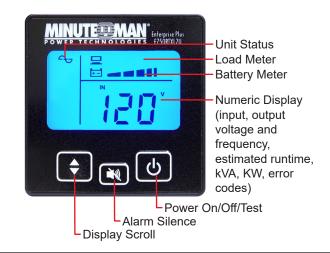
(10 (32-bit/64-bit), 8 (32-bit/64-bit), 7 (32-bit/64-bit), Vista (32-bit/64bit), XP SP2, Server 2012 R1/R2 (64-bit), Server 2008 R1 (32-bit/64bit), Server 2008 R2 (64-bit), 2008 Server Core, Hyper-V 2008R2, Server 2003)

- Linux operating systems.
- Batch configuration
- SNMP, (v1, v2c, v3), trap support
- Combined with Minuteman's MM Shutdown Agent, can control up to 255 devices

New LCD Front Panel Display

EnterprisePlus LCD UPS products now feature an informative LCD display. This display offers real-time feedback on the following areas:

- Input / Output Voltage and Frequency Display to monitor the status of your utility power
- UPS Battery Mode/Status Icons which eliminates guesswork with a straightforward display of the UPS status
- Load Capacity Indicator displays how much of a connected load is being placed on the unit
- Numeric Estimated Runtime Display which is based on the connected load to indicate how much backup time remains during a blackout



Minuteman Support

- **Minutemanups.com** Full product specifications, manuals, catalogs, FAQs, troubleshooting, & more
- SizeMyUPS.com Easy-to-use interactive UPS sizing site offering an extensive database of equipment power ratings to guarantee proper UPS selection for your system

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UPS Communication: Normal UPS Health: Normal	Ned Restart Time:
	Next Test Time:
	Next Deep Bat: Test Time: Week'v Schedule
CadputLoad:	30% Specific Schedule
Dattery Status: Normal	
Gabey Capacity.	1085
Last 5 Event Log	
Date/Time Event Lavel	Event Description
1 12/19/2012 15/21 43 System	Account admin login from 127.0.0.1:29874
2 12/19/2012 15:17:32 System	INVARITIES ON IPMARTERS ON IPMARTERS ON
3 12/19/2012 15:17:22 System	Pv4-SMIP Server: OK IPv5-SMIP Server: OK



HTTP and HTTPs

· Supports scheduled UPS shutdown,

Send e-mail and SMS alarm notices

Supports web browser access through

restart and battery testing

 Supports both RS232 and USB communication protocols

EnterprisePlus LCD[™] UPS Models & Specifications

Specifications are the same for standard (RT2U), extended runtime (RTXL2U), and network card (NC) models except XL external battery packs

MODELS:	STANDARD RUNTIME Extended runtime 208V	E750RT2U E750RTXL2U	E1000RT2U E1000RTXL2U	E1500RT2U E1500RTXL2U (E1500RTXL72U) E1500RTXL2UNC	E2000RT2U E2000RTXL2U	E3000RT2U E3000RTXL2U (E3000RTXLT2U)				
	EXTENDED RUNTIME (NC) 208V (NC)	E750RTXL2UNC	E1000RTXL2UNC	É1500RTXL2UNC (E1500RTXLT2UNC)	E2000RTXL2UNC	E3000RTXL2UNC (E3000RTXLT2UNC)				
<i>l</i> laximum	Power Capacity (VA/Watts)	750/600	1000/800	1500/1200	2000/1760	3000/2560				
Topology			Line-Interac	tive, True Sine Wave	e Uninterruptible Power Sup	ply				
Power Fac	ctor	0.8	0.8	0.8	0.88	0.853				
	nd Surge I Receptacles	8 - 5-15R	8 - 5-15R	8 - 5-15R (6 - 6-15R)	8 - 5-15/20R, 1 - L5-20R	7 - 5-15/20R, 1 - L5-30 (6 - 6-15/20R, 1 - L6-30				
nput Con	nnection (with 10 ft power cord)	5-15P	5-15P	5-15P (6-15P)	5-20P	L5-30P (L6-30P)				
Nounting	/Installation			Rackmount/Towe	r and Wallmount					
			Input							
lumber o	of Phases			Single (10	2W +G)					
Nominal V	Voltage•Voltage Range		120	VAC (208VAC) • 80-	164VAC (150-271VAC)					
-	le Input Voltage			50/60Hz +/-6Hz 0-165VAC (0						
ow Volta	age Transfer Point		80V (150)	V) resets to utility po	wer at 85V (157V) or higher					
ligh Volta	age Transfer Point		164V (271	V) resets to utility po	ower at 159V (264V) or lowe	r				
nput Prot	tection			Resettable ci	cuit breaker					
			Output Non-battery	y Operation						
-	ange • Voltage Regulation	120\	/AC: 101-136VAC •	-15.8% to 11.7% (2	08VAC: 186-236VAC) / -10.	6% to +13.5%				
	y Range •	60Hz/50Hz +6Hz	• >93% at full load		60Hz/50Hz ±6Hz • >97% at	full load				
fficiency	(Line Mode)									
			Output Battery O							
Nominal V				120/125VAC (2	,					
	Regulation		120V	· · · ·	intil low battery warning					
Frequency	-			±0.1Hz unless syn						
/oltage Tl			<5% at full r	ated linear load / <1	2% at full rated non-linear lo	ad				
•	Response • Transfer Time			±10% @ 100% Loa	d change in 30 ms					
Naveform	n			True Sin						
Overload					conds, 150% shutdown imm	,				
Protection	n		Over currer	nt, Short circuit prote	ection and Latching shutdow	'n				
			Battery Sys	tem						
Battery Ty	уре		Sealed, non-s	pillable, maintenanc	e free, valve regulated lead	acid				
Typical Re	echarge Time			8 hours from total	discharge to 90%					
Typical Ba	attery Life				cycles and ambient temper					
System Vo	•	36VDC	36VDC	36VDC	72VDC	72VDC				
Battery M		BM0029	BM0029	BM0030	BM0031	BM0032				
Runtime:	Half •Full Load (minutes)	17 • 8	15 • 5	11 • 4	13 • 5	8•3				
			Surge Protection a	nd Filtering						
Surge End	ergy Rating (Joules)			1000J (800J)	1000J (800J)				
Surge Cur	rrent Capability		6500Amps total							
		Ons(instananeous) normal mode: <5 ns common mode								
Surge Res	sponse time		0ns(insta							
0	•		norm	ananeous) normal m al and common mod						
Noise Filt	•	<45dBA	,	ananeous) normal m	node: <5 ns common mode	<60dBA				
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Noise Filte Audible N	ter	<45dBA	norm <45dBA Environmer	ananeous) normal m al and common mod <45dBA ntal	node: <5 ns common mode le EMI/RFI suppression					
Noise Filte Audible N Temperate Humidity:	ier Ioise at 1 m (3 ft.) ure: Operating • Storage : Operating/Storage	<45dBA	norm <45dBA Environmer	ananeous) normal m al and common mod <45dBA ntal 04°F (0° to 40°C) • 95% non-cd	ode: <5 ns common mode le EMI/RFI suppression <60dBA +5° to +113°F (-15° to +45°C ondensing	;)				
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Noise Filte Audible N Temperate Humidity:	ier Ioise at 1 m (3 ft.) ure: Operating • Storage : Operating/Storage	<45dBA	vorm <45dBA Environmer +32° to +10	ananeous) normal m al and common mod <45dBA ntal 04°F (0° to 40°C) • 95% non-co t. (0 to 3,000m) • 0	ode: <5 ns common mode le EMI/RFI suppression <60dBA +5° to +113°F (-15° to +45°C ondensing	;)				
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Noise Filt Audible N Temperati Humidity: Elevation: Size: Net (er loise at 1 m (3 ft.) ure: Operating • Storage : Operating/Storage : Operating•Storage	17.4 x 19.0 x	norm <45dBA Environmer +32° to +10 0 to 10,000fr Physical	ananeous) normal m al and common mod <45dBA ntal 04°F (0° to 40°C) • 95% non-ca t. (0 to 3,000m) • 1 1 2.6 x 89.0 mm)	ode: <5 ns common mode le EMI/RFI suppression <60dBA +5° to +113°F (-15° to +45°C ondensing 0 to 50,000ft. (0 to 15,000 24.0 x 19.0 x 3.5 in (61	c) m) 0.0 x 482.6 x 89.0 mm)				
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