Encore Series

Single-Phase Line-Interactive UPS

For Business-Critical Systems

The Encore Series is the next generation of line interactive, true sine wave, Uninterruptible Power Supply. It's unique design provides protection from a wide variety of power quality problems in addition to blackout protection, making it ideal for network servers, phone systems, and other applications where system shutdown is not an option.

An industry-leading full three-year warranty comes standard with each Encore Series UPS, including the battery.

Designed as the optimum mix of performance and costeffectiveness, the Encore Series provides the level of protection demanded for your business-critical systems.



Encore Front Panel (All Models)



Encore ES2300 120 Volt Rear Panel





Advantages

- Industry leading 3 year warranty
- True sinewave output for superior power quality
- Double Buck, Double Boost regulation transformer allows for 74-164 VAC input without using the battery
- Better than 99% AC to AC efficiency for lower cost of ownership
- Hot-swappable batteries allows the batteries to be replaced without powering down the critical load
- External battery packs include a standard, internal charger for faster recharge, longer battery life and unlimited battery runtime
- Larger batteries mean longer holdup time
- Tower, rack or wall-mount all from the same UPS
- Automatic diagnostic testing biweekly ensures the Encore Series is ready when you need it
- Simple, user friendly front panel controls for monitoring key functions
- Advanced monitoring and control communications with Sentry II[™] software



Product Specifications

Model Number	ES05001 [ES05002]	ES07501 [ES07502]	ES1100 [ES11002		ES15001 [ES15002]	ES23 [ES230		ES32 [ES32		
[230 VAC Models]							_			
Load Rating VA/Watts	500/300	750/450	1100/660)	1500/900	2300/	1380	3200/1	1920	
Receptacles - NEMA 5-15R	3/1	3/1	5/1		5/1	7/*	1	7/1		
UPS/Surge Only [IEC-320]	3/1			1 [150.00						
Input Line Cord	NEMA 5-15P Plug w/6 ft. cord [IEC 320] NEMA L5-30P Plug w/6 ft. cord									
Topology	Line-Interactive Floor / Rack / Wall (optional)									
Type Warranty			FIUUI / K	3 Years						
EMI/RFI	3 rears FCC Part 15 Cat. B, DOC Class B, EN55022, EN50081-1, EN50082-1									
Agency Approvals	UL1778, CSA 22.1, CE EMC, CE Safety, TUV									
Input (non-battery operation)			OLITTO, OUTL	Z.T, OE EN	no, or outery, rov					
Voltage Range	75 to 164 VAC [150 - 290 VAC]									
Frequency Range				0 Hz. Auto						
Input Protection					it Breaker					
Electromagnetic Immunity					801-5 Level V					
Output (normal operation)										
Voltage		120 V/	AC ± 12% (105-12	28) [220]	VAC -5 + 12% (210) - 250)]				
Frequency				± 6 Hz	Ζ.					
Wave Form	True Sinewave									
Surge Protection	<u> </u>			508 Joul						
Surge Response Time	0 ns. (instantaneous) in Normal Mode, < 5 ns. in Common Mode									
Noise Filter	Normal and Common Mode EMI/RFI									
10 Base-T Surge Let Through	<5%									
Phone Surge Let Through Output (battery operation)	<1%									
Voltage (default)	Default 117 VAC - User Selectable at 108, 113, 117 [215, 225, 235]									
Frequency										
Wave Form	True Sinewaye									
Typical Transfer Time	< 2 ms. Maximum									
Mechanical/Environmental										
Dimensions Net (H x W x D)	3.5" x 17" x 16" in (8.9 x 43.2 x 40.7 cm)							(8.9 x 43.2 x		
Dimensions Shipping (H x W x D)	6" x 21" x 20" in (15.2 x 53.3 x 50.8 cm)						10" x 21" x 20" in (25.4 x 53.3 x 50.8 cm)			
Net/Shipping Weight (Lbs.)	43/49 52/57 56/62 74/79 88/94 95/100								00	
Operating Temperature	32 - 104° F (0 - 40° C)									
Storage Temperature Battery System	5 - 113° F (-15 - 45° C)									
Hot Swappable Battery				V	/es					
Internal Battery (spill proof, maint. free)	(2) 12 VDC 4.5 Ah	(2) 12 VDC 7.2 Ah	(4) 12 VDC 4.5		(4) 12 VDC 7.2 Ah		(4) 12 V	DC 12 Ah		
Typical Recharge Time	2 to 5 Hours									
External Battery Packs	0 .10010									
Extended Battery	24 VDC 14.4 Ah Battery 48 VDC 12 Ah									
High Capacity Battery	24 VDC 28.8 Ah Battery						48 VDC 24 Ah			
Battery Dimensions	3.5" x 17" x 16" in (8.9 x 43.2 x 38.1 cm)						5.25" x 17" x 16" in			
Extended Battery Net/Shipping Wt.	49 lbs (22.2 kg)/ 58 lbs (26.4 kg) 66 lbs (30.5 kg) 74 lbs (33.6 kg								3.6 kg)	
High Capacity Battery Net/Ship Wt.	73 lbs. (23.2 kg.) / 81 lbs. (36.8 kg.) 102 lbs (46.4 kg)/112llbs (50.9 kg									
Internal Charger	Yes Untimited									
Maximum Runtime Communication				Unlimit	ea					
Sentry II™ Power Management Software	Software CD and Serial Cable Included, Serial Dry Contact Standard									
Communications Slot	Optional USB, SNMP, or AS/400 Plug-In Card									
	Optional USB, SNMP, or AS/400 Plug-in Card Backup Time In Minutes									
Raftery Matrix			6 50%	100%	50% 100%	50%	100%	50%	100%	
Battery Matrix		<u> </u>	υ JU/0				100%	14		
% Load	50% 100%	50% 100°		0				14	5	
% Load Internal Battery Pack	50% 100% 29 12	28 12	21	8 20	20 8	24 60		40	17	
% Load Internal Battery Pack 1 Extended Battery Pack	50% 100% 29 12 152 64	28 12 101 41	21 68	28	56 23	60	25	40	17	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs	50% 100% 29 12 152 64 277 120	28 12 101 41 184 80	21 68 113	28 48	56 23 97 42	60 105	25 45	68	28	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs 3 Extended Battery Packs	50% 100% 29 12 152 64 277 120 379 177	28 12 101 41 184 80 248 112	21 68 113 168	28 48 75	56 23 97 42 140 62	60 105 134	25 45 58	68 88	28 38	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs 3 Extended Battery Packs 4 Extended Battery Packs	50% 100% 29 12 152 64 277 120 379 177 547 225	28 12 101 41 184 80 248 112 360 166	21 68 113 168 241	28 48 75 110	56 23 97 42 140 62 181 81	60 105 134 190	25 45 58 86	68 88 126	28 38 56	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs 3 Extended Battery Packs 4 Extended Battery Packs 1 High Power Battery Pack	50% 100% 29 12 152 64 277 120 379 177 547 225 267 113	28 12 101 41 184 80 248 112 360 166 169 69	21 68 113 168 241 109	28 48 75 110 46	56 23 97 42 140 62 181 81 84 34	60 105 134 190 90	25 45 58 86 38	68 88 126 60	28 38 56 25	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs 3 Extended Battery Packs 4 Extended Battery Packs 1 High Power Battery Pack 2 High Power Battery Packs	50% 100% 29 12 152 64 277 120 379 177 547 225 267 113 517 225	28 12 101 41 184 80 248 112 360 166 169 69 330 143	21 68 113 168 241 109 209	28 48 75 110 46 89	56 23 97 42 140 62 181 81 84 34 162 70	60 105 134 190 90 175	25 45 58 86 38 75	68 88 126 60 113	28 38 56 25 47	
% Load Internal Battery Pack 1 Extended Battery Pack 2 Extended Battery Packs 3 Extended Battery Packs 4 Extended Battery Packs 1 High Power Battery Pack	50% 100% 29 12 152 64 277 120 379 177 547 225 267 113	28 12 101 41 184 80 248 112 360 166 169 69	21 68 113 168 241 109 209 296	28 48 75 110 46	56 23 97 42 140 62 181 81 84 34	60 105 134 190 90	25 45 58 86 38	68 88 126 60	28 38 56 25	

 $\textbf{Specifications are subject to change without notice.} \quad \textbf{Sentry II}^{\text{TM}} \text{ is a trademark of Para Systems, Inc.}$

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