

The new Liebert NX UPS with SoftScale™ technology combines the industry's most flexible approach to scalability with an efficiency rating of up to 97%. It is designed for small and medium size data centers that are facing unpredictable changes in their IT systems.

The Liebert NX with SoftScale™ can be sized to current requirements and then be easily scaled up in 20kVA increments. When an upgrade is purchased an Emerson Customer Engineer will visit the site and install a software key to complete the capacity upgrade. Modules can adapt from 40 kVA to 60 kVA to 80 kVA or from 80 kVA to 100 kVA to 120 kVA. In addition, modules with identical or different ratings can work in parallel to handle higher capacities.

These Liebert NX modules can be positioned in a row of racks alongside the IT equipment it protects to optimize space utilization.



Features & Benefits

Flexibility:

- Parallel units that are the same or different capacities for greater flexibility in managing power growth.
- Generator compatible.
- Power communications available through Liebert IntelliSlot® Web Card LB and Liebert MultiLink™ shutdown software.
- Large and user-friendly LCD display provides operating information in twelve languages.
- Internal automatic bypass transfers load to bypass in the unlikely event that a fault occurs in the UPS. Optional wrap-around maintenance allows the UPS to be powered down or taken out of service without disconnecting power to the load.
- Easy servicing due to front accessibility of critical components, self-diagnostics and various monitoring options.

Higher Availability:

- Wider input voltage window and frequency tolerances help to minimize transfer to battery, reducing the number of charging and discharging cycles.
- High overload rating capable of clearing a 20 A branch circuit breaker.
- Integrated ground fault detection allows for effective transformerless design, saving space and lowering the weight.
- True on-line double conversion technology protects and conditions against the full range of power irregularities, requiring fewer transfers to battery.
- Advanced inverter control technology provides the highest output power quality to maximize efficiency and operating life of connected equipment.
- Load Bus Synchronization provides the capability to synchronize the outputs of two independent UPS modules when they are configured as a redundant system feeding independent distribution paths.
- An intelligent battery management algorithm monitors the battery to detect any premature battery failure.

Lowest Total Cost Of Ownership:

- Soft-switching technology optimizes operation with the same high efficiency at 40% utilization as at 100% utilization.
- Adaptive input voltage window results in fewer hits on the battery.
- The unit's compact footprint requires less floor space, leaving you with more room for other equipment.
- Temperature-compensated battery charging extends battery life.

Frequently Asked Questions

Question	Response
<p>What are the advantages of the Liebert NX with SoftScale compared to similar capacity UPS systems?</p>	<p>Here are some important differences:</p> <ul style="list-style-type: none"> ■ Parallel units for added capacity as your needs grow. ■ Complete Power Conditioning — True online double conversion technology corrects all types of power fluctuations. ■ Save On Energy Usage — The Liebert NX offers improved efficiency up to 97%, which results in lower operating costs.

Competitive Comparison

Feature	Liebert NX 40 – 120 kVA	MGE Galaxy 4000 40 – 75kVA	MGE Comet 40 – 150kVA	Powerware 9390 40 – 160kVA	APC Symmetra PX 10 – 80kVA	The Liebert Advantage
Usable Input Voltage Range (VAC)	480 VAC: 288 to 552 VAC when connected load is less than 80%	208 VAC: 166 to 240 VAC	208 VAC: 177 to 233 VAC 480 VAC: 408 to 538 VAC	208 VAC: 176 – 228 VAC for all load conditions 480 VAC: 408 – 528 VAC for all load conditions	208 VAC: Input voltage range for main operations 177 – 240 VAC	A broader input voltage range results in less battery use, fewer battery replacements and a lower total cost of ownership.
Audible Noise	62-64 dBA	69 dBA	65 dBA	<65 dBA	71 dBA	Lower noise level provides more flexibility when locating UPS near an office environment.
Handling Of Overload Conditions	125% for 10 minutes 150% for 1 minute	130% for 1 minute 145% for 30 seconds	105% - 110% of rated load for 10 minutes >110% - 130% of rated load for 1 minute	Not listed in specifications	Not listed in specifications	The user can connect a load to the NX without worrying about driving the UPS into bypass or shutdown.
Fast Battery Recharge	Triple mode charger provides faster battery recharging	Standard internal charger	Standard internal charger	Uses a threestage charging technique	Not listed in specifications	Fast recharge times enhance system availability.

Liebert NX UPS with SoftScale™ (40-120 kVA)



Liebert NX Bundles

Liebert NX UPS	General Description	Quantity of Liebert NX UPS	kVA/Watts	External Battery Cabinet	SNMP Card	System Paralleling Cabinet	Paralleling Cable
38SB080A0A00 ü √	Parallel UPS system rated 40kVA to 240kVA redundant	1 to 4	40/36 to 240/216 Redundant.	38BP080XMR1BNS √	OCWEB-LB	38SC080AA64KB0S	531614-10 ü
38SB080A0A00 ü √	Parallel UPS system rated 80kVA to 360kVA redundant	1 to 4	480/72 to 360/324 Redundant.	38BP080XMR1BNS (2) √	OCWEB-LB	38SC120AA64KB0S	531614-10 ü

Liebert NX UPS	Liebert FPC	Liebert FDC
38SB040A0A00	FPA10C211P	FDA4411SB10
38SB080A0A00	FPA30C412P	FDA4411SB10
38SB081A0A00	FPA12C211P	FDA4411SB10
38SB120A0A00	FPA20C412P (2)	FDA4422SB10

Liebert NX Related Products



Liebert NX Extended Battery Cabinet

Liebert NX extended battery cabinets allow you to configure battery time to best meet room back-up requirements.



Liebert NX Paralleling Cabinet

Paralleling cabinet available in multiple configurations to parallel Liebert NX SoftScale™ UPS modules rated 40kVA to 80kVA and 80kVA to 120kVA.



Liebert FPC

Provides higher quality, more flexible power distribution for high-density data centers. This self-contained system provides voltage transformation power isolation, power distribution, computer-grade grounding and power monitoring.



Liebert IntelliSlot Web Card

The Liebert IntelliSlot Web Card delivers SNMP and web-management communications capability to a Liebert NX UPS.

Specifications

Models	NX 40 kVA	NX 60 kVA	NX 80 kVA	NX 100 kVA	NX 120 kVA	NX Battery Cabinet 40-120 kVA	NX Parallel Cabinet Type E1 40-120 kVA
Power Rating - kVA	40	60	80	100	120	80/120	80/120
Power Rating - kW	36	54	72	90	108	80/120	80/120
Input AC Specifications							
Phase	3					2	3
Power Factor	> 0.99 at full load; >0.98 at half load					N/A	N/A
Frequency - Hz	50 or 60Hz.					N/A	60
Input Voltage	480, 3 Wire + Ground					N/A	480V or 600V, 3-wire plus ground
Input Voltage Range	+15, -20					N/A	N/A
General Specifications							
UPS Technology	On-Line, double conversion						
Battery Specifications							
Battery Test Type	On-Line						
Battery Technology	VRLA, Wet Cells					VRLA	
Output AC Specifications							
Nominal Voltage	480VAC, 3wire plus ground					480 VDC	480 VAC, 3wire plus ground
Frequency - Hz	60 (50 Hz in frequency converter mode)					N/A	60
Output Waveform	Sinewave					N/A	Sinewave
Panelboards or Receptacles	N/A					0	1
User Interface							
LCD Display	Yes					No	No
Communications							
Communications Options	Intellislot, SNMP, Relay Card, MultiLink					Dry Contact (back to UPS)	Dry Contact (back to UPS)
Physical Data							
Form Factor	Rack					Rack	Rack
Unit Height - inches (mm)	78.5 (2000)					78.7 (2000)	78.7 (2000)
Unit Width - inches (mm)	23.6 (600)					33.2 (845)	33.2 to 48.8 (845 to 1240)
Unit Depth - inches (mm)	38 (965)					38 (965)	38 (965)
Unit Weight - lbs. (kg)	1290 (585)	1290 (585)	1290 (585)	1422 (645)	1422 (645)	Weight based on selected configuration	
Shipping Height - inches (mm)	84.5 (2146)					84.5 (2146)	84.5 (2146)
Shipping Width - inches (mm)	48 (1220)					48 (1220)	48 to 74 (1220 to 1880)
Shipping Depth - inches (mm)	48 (1220)					48 (1220)	54 (1372)
Shipping Weight - lbs. (kg)	1490 (676)	1490 (676)	1490 (676)	1622 (736)	1622 (736)	Weight based on selected configuration	
Environmental							
Operating Temperature, Min., °F (°C)	32 (0)						32 (0)
Operating Temperature, Max., °F (°C)	104 (40)						104 (40)
Storage Temperature, Min., °F (°C)	-4 (-20)						-4 (-20)
Storage Temperature, Max., °F (°C)	158 (70)						158 (70)
Relative Humidity	0% to 95%, Non Condensing						0% to 95%, Non Condensing
Operating Elevation - ft. (m)	≤ 3,300 (1000) per IEC 62040/3						≤ 3,300 (1000) per IEC 62040/3
Sound Emission/Audible Noise	62	62	62	64	64		
Cooling	Fan Cooled					Convection Cooled	
Agency/Certification/Conformance							
Agency Approval	UL 1778, c-UL, FCC Class A					UL 1778, c-UL, FCC Class A	
Warranty							
Standard	1 Year					1 Year	



Liebert MultiLink™ Shutdown Software

Liebert MultiLink software monitors battery status and warns users of impending power loss and automatically shuts down systems in a safe and orderly manner.



Liebert Nform

A simple to use monitoring and communications software solution that combines network monitoring of power and cooling equipment.



Installation And Service

Only Emerson can provide the industry's largest, most experienced service organization with a proactive approach that prevents failures and extends equipment life.