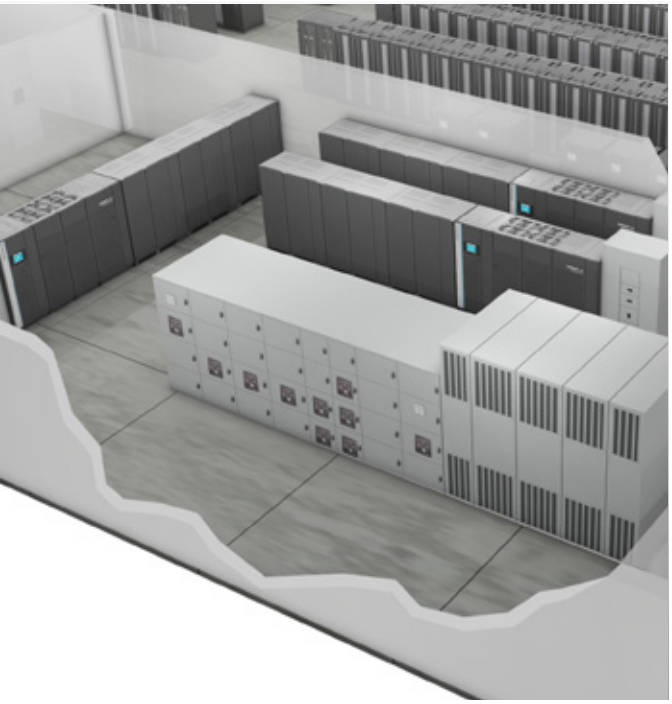
Maximum Efficiency Operation in an Intelligent, Low TCO Design

Liebert® *e*XL™ UPS 800kVA, Single Module System



EMERSON™
Network Power

Achieving Maximum Efficiency Through Intelligent UPS Design

Every business has unique needs for their data center. Frequently, these needs focus on maximum protection in terms of availability or providing maximum efficiency in terms of significant operating savings and low total cost of ownership.

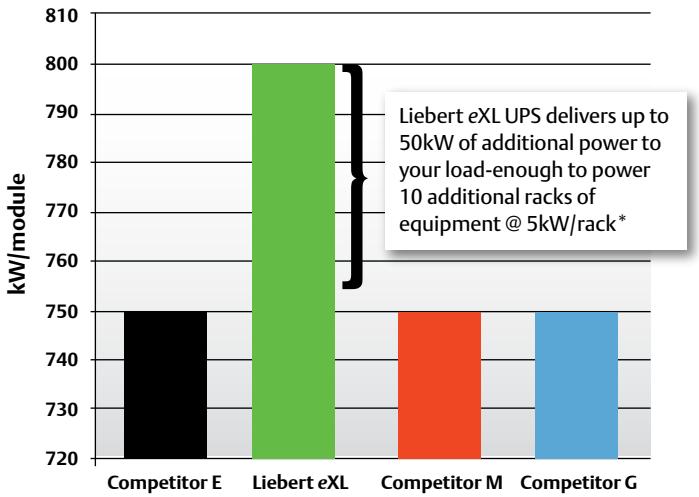
The Liebert® eXL™ UPS is an 800kVA/kW system with features that make it the right solution for a Maximum Efficiency data center – with a design that supports high operating efficiency, lower TCO, and intelligent operation, while complying with data center policy and business needs.

With the Liebert *e*XL UPS, Expect These Benefits:

High Efficiency/Low TCO

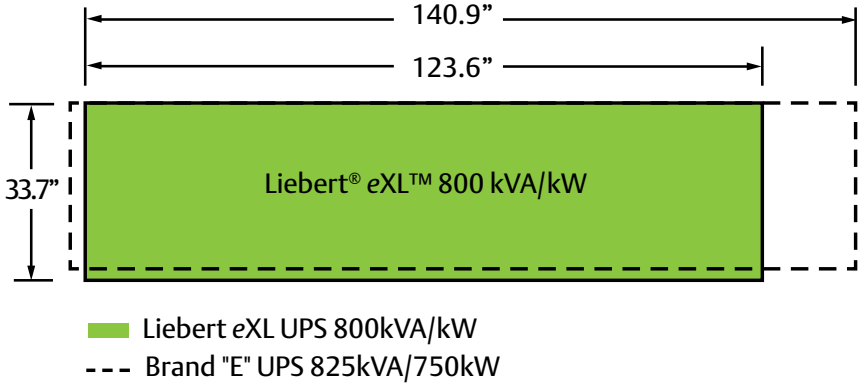
- Transformer-free topology with greater than 96% efficiency in double conversion mode.*
- High capacity in a smaller, lighter footprint, for best space utilization.
- Unity power factor, delivering more usable power for your infrastructure investment.
- Accommodates IT load without de-rating, eliminating the need to oversize for leading load power factor.
- Lower installation costs with three-wire design and high input power factor.
- Optimizes PUE through lower operating losses and reduced cooling requirements.

* At full load



*(*Based on a 1200A 100% rated breaker feeding the UPS)*

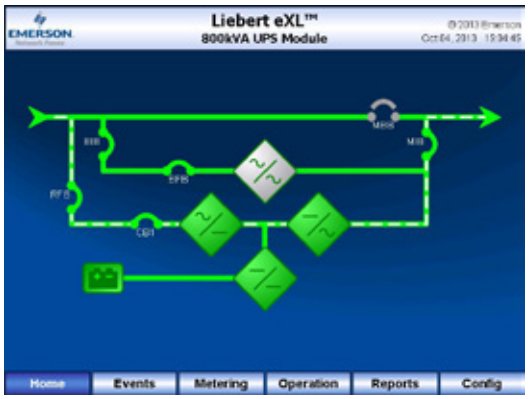
Liebert *e*XL UPS delivers More Usable Power.



Liebert *e*XL UPS has a footprint that is up to 10% smaller than competitive systems, and delivers 17% higher power density per square foot.

Intelligent, proactive technology and support

- Integrated control system and internal diagnostics allow enhanced visibility into operation and awareness of potential issues.
- Rich information, management and monitoring via integration with the *Trellis*™ platform. Easily compatible with other management solutions.
- LIFE™ Technology allows Emerson Network Power experts to remotely monitor your data center and proactively resolve potential issues.
- Large, user-friendly HMI touch screen makes maintenance simpler and reduces likelihood of user error.



The large, on-unit HMI touch screen (10.4") provides comprehensive, real-time updates of critical system information.

Standard SMS Initial Release Configuration

- Continuous-duty, fully-rated static switch.
- 100kA short circuit withstand design for high available fault current applications.
- Utilizes circuit breakers as opposed to contactors to increase reliability.
- Contact factory for availability of other configurations.

Service and Support from Emerson Network Power

Emerson Network Power provides the industry's largest service network, ensuring that data center expertise is never far when you need it. From strategy to deployment, operation and expansion, our team can help you optimize your data center for efficiency and availability.

- System-level factory witness testing provides assurance that crucial power systems work together – before site installation.
- Emerson Network Power has the largest network of factory-trained local service and support in the industry. Our customers find that expertise is never far away when they need it, whether it be during strategy, deployment or operation.
- Factory-direct service technicians.
- LIFE™ Technology for remote monitoring enables our experts to track your UPS performance 24/7/365 to optimize efficiency and availability.

Liebert® *e*XL™ UPS Model Size 800kVA / 800kW	
Input AC Parameters	
Rectifier Type	IGBT Active Rectifier
Input Voltage to Rectifier	VAC 480 3-phase, 3-wire
Input Voltage to Bypass	VAC 480 3-phase, 3-wire
Input Voltage Range	VAC +10%, -15% (-30% battery assist)
Input Frequency, Hz	60
Permissible Input Frequency Range, Hz	55 to 65
Input Power Factor	>0.99
Reflected input THDi at nominal voltage at full load %	<5%
Power Walk-In, sec	1 to 30 (selectable) in 1 sec. Increments
Battery & DC Parameters	
Battery Type	VRLA (Valve Regulated Lead Acid) or FLA (Flooded Lead Acid) or Flywheel
Nominal Battery Bus, VDC	480V
Battery Float Voltage, VDC	540V
DC Ripple Voltage in Float and Const V Ch. mode, %	<1 (RMS value) < 3.4% Vpp
Temperature Compensated Battery Charging	Standard (with temperature probe)
Output Parameters	
Inverter Type	High Efficiency Transformer Free IGBT PWM Controlled Inverter
Output Power, kVA/kW	800kVA/800kW
Load Power Factor Supported (Without Derating)	0.7 Leading to 0.7 Lagging
Output Voltage	480 VAC 3-phase, 3-wire
Output Voltage Regulation, %	< 1% (3-phase RMS average)
Output Voltage Regulation (50% Unb. Load)	< 2% (3-phase RMS average)
Output Frequency, Hz	60 Hz
Output Frequency Regulation, %	± 0.1%
Output THD at Nominal Voltage (Linear Load), %	3%
Output THD at nominal voltage Including a 100kVA Non Linear Load per IEC 62040-3, %	<6% (max)
Efficiency AC-AC Double Conversion	>96%
Transient Recovery	IEC 62040-3, section 5.3.1 Figure 1
Voltage Displacement	120 deg +/- 1 deg (50% unbalanced load)
Unbalanced loads current capacity	50% of nominal phase current
Overload	110% for 10 minutes, 125% for 2 minutes, 150% for 15 seconds, 200% for 10-cycles
Physical Characteristics Single Module System	
Width, Depth, Height in inches (mm)	123.6 in x 33.5 in x 76.7 in (3140 mm x 850 mm x 1950 mm)
Weight, unpackaged, lbs (kg)	5,735 lbs. (2,601 kg.)
Color	Black, RAL 7021
Protection Class, UPS Enclosure	NEMA 1, IP 20 (with and without front door open)
Standards	
Safety	UL 1778 4th Edition; CSA 22.2 107.3
Surge	ANSI C62.41 B3
Other certifications pending	

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