Liebert® eXM™ UPS 10-250 kVA/kW
Efficient, Flexible Power Optimized for Midsize Applications

FLEXIBLE. ECONOMICAL. INTELLIGENT
Uninterruptible power solutions for midsize deployments often need features found within both larger and smaller applications. The Liebert® eXM™ UPS provides the ideal blend of both row-based and room-based requirements.

Intelligent controls, efficient operation and reliable protection join together to deliver excellent performance. Flexible configurations provide low total cost of ownership and allow organizations to meet stringent Service Level Agreements.

**Efficient and Economical So You Can Control Costs**

The Liebert eXM UPS was purposefully designed to provide efficient power protection that can meet your operating and capital requirements.

- Unity Power Factor ensures more power is provided in a smaller footprint, thus increasing system capacity while minimizing cabling and installation costs.
- Delivers high efficiency levels throughout the capacity range.
- Emerson’s transformer-free design saves space, capital, weight and shipping costs.
- ENERGY STAR® qualified.
- Superior operating efficiencies are realized through both the Eco-Mode option, which performs at 98% and the Double Conversion Mode, which delivers 95.4%.
- 208 or 480 volt systems

**Benefit From a Unity Power Factor Design: Get Greater Power Capacity in a Smaller Footprint**

*Based on a 100kVA, 100A 100% rated breaker*

**What Can Greater Efficiency Mean To You?**

Liebert eXM UPS saves over $1,000/year for every percentage point gain in efficiency.*

* $.10/kWh, at 100kW

The Liebert eXM UPS is ideal for:

- Small to midsize IT applications
- Edge of the network operations
- Midsize/regional colocation facilities
- Testing, medical and telecom systems
- Emergency lighting
Intuitive, Intelligent Operation

Whether you need basic monitoring, intelligent control or complete data center infrastructure management, Emerson provides a wide range of solutions to meet your specific requirements.

- **LCD Panel**: The Liebert eXM™ UPS uses a comprehensive, easy to use LCD interface to provide robust monitoring and control while reducing the likelihood of human error.

The Liebert eXM UPS is fully compatible with:

- **Albér Battery Monitoring Systems**: A factory integrated Albér BDSUi™ battery monitoring system provides advance warning of pending UPS battery failures, the most common cause of unplanned data center outages. Utilizing its patented DC resistance testing method, the Albér BDSUi provides real-time system and component level visibility by verifying the state of health of the entire battery system.

![Albér Battery Xplorer Dashboard](image1)

**System View**

View data on parallel battery strings simultaneously.

**String View**

View a trend graph showing the history of all the string level parameters

- **Communications and Environmental Monitoring**: Leverage the capabilities of our Unity Communications card and sensors to easily daisy chain together data inputs.
  - Temperature
  - Humidity
  - Leaks
  - More
  - Access

- **The Trellis™ Platform**: Provides robust Data Center Information Management (DCIM) capabilities using selectable modules and suites.

- **Liebert SiteScan™**: Offers centralized monitoring and control of all critical infrastructure systems, using a variety of network protocols.

- **Liebert Nform™**: Enables data center monitoring for any SNMP device that supports a network interface.

- **Liebert MultiLink™**: Provides controllable, auto shutdown routines when backup power is exhausted.

- **Third party monitoring and Building Management Systems**: Integrates seamlessly into other systems.

![Liebert SiteScan](image2)

The Trellis™ Platform

Liebert SiteScan

Liebert Nform

Liebert MultiLink

![User manual on disk](image3)

Updates available at multilink.liebert.com

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Part No. MLADV
Flexible Configurations and Deployment Options

The Liebert® eX³™ UPS provides outstanding design flexibility by offering optimized ancillaries and configurations. Many models can be deployed quickly to meet your dynamic IT demands.

**Customize to Fit Specific Needs**
- The fixed capacity system is optimized using a flexible, modular construction design.
- Optimized ancillaries reduce system footprint for better use of space.
- Designed to meet diverse voltage requirements.
- 208 and 480 volt inputs. Accommodates 600V with optional input transformer.
- Accommodates single & dual inputs from the same or asynchronous sources
- Matching battery cabinet options to meet extended runtime demands.
- Bypass cabinet options to allow full system maintenance without shutting down the critical load.
- Distribution panel board options allow more circuits.
- Paralleled systems can be configured to add capacity or redundancy.
- Meets emergency lighting applications (UL924) in 10-60kVA models.

**Battery Cabinets**
- 3 unique sizes
- Temperature Sensor
- Circuit Breaker
- Accommodates Albér BDSUi Battery Monitoring

**Maintenance Bypass/Bypass Distribution Cabinets**
Choose from two options
- Maintenance bypass only (shown)
- Maintenance bypass distribution cabinet with 225 or 400 amp panelboards

**Save More Than 30% in Floor Space Over Comparable Systems**
(100kVA UPS, Battery, Distribution, Bypass)

10-60 kVA/kW 208V
UL924, UL924A Listed

UL 924 Emergency Lighting UPS
Deploy Power the Way You Need It, When You Need It

**Capacity With an Eye Towards Flexibility**
The Liebert eXM™ UPS provides all the matching ancillary cabinets needed to address your power system demands.

- Wide capacity range from 10 – 250 kVA/kW
- Optional, optimized ancillary cabinets
  - Maintenance bypass cabinet
  - Bypass and distribution cabinet
  - Battery cabinet (multiple run times)
  - Paralleling cabinet (enables capacities over 200kVA)
  - Transformer cabinet
  - Battery and distribution cabinet

10-100kVA/kW UPS  
120-200kVA/kW UPS  
50-250kVA/kW 480V

**Integrated, Optimized, Tested Ancillaries for the Liebert eXM UPS. Available for both 208 & 480V systems.**

- With Battery and Bypass Cabinets
- With Battery Cabinet
- With Bypass Cabinet
- Bypass Distribution Cabinet
- Transformer Cabinet
On-line, double conversion design delivers the most reliable power and highest uptime levels of any UPS designs.

- Multi-module configurations allow you to meet availability goals.
- Fault tolerant capabilities can withstand internal power module failures and still support a partial load without going to bypass.
- Standard 65kA short circuit withstand rating (certain conditions may apply).
- Easy access to key components reduces maintenance and repair time.
- Leverages Emerson’s experience and expertise in designing high Mean Time Between Failure (MTBF) UPS solutions for serviceability, with standardized, modular construction and internal diagnostic capabilities.

**Single Module System (SMS)**

**Protection From Critical Power Problems.**

- Outages
- Sags
- Surges
- Spikes
- Noise
- Transient
- Frequency Deviation
- Under-Voltage
- Over-Voltage
- Harmonics

**Multi-Module Flexibility**

Matching Paralleling Cabinet supports up to a 2+1 configuration. Options for up to 4+0 can be supported using third party switchgear.

The flexibility and resiliency of the Liebert® eX³™ UPS can also be realized in the many system configurations that are available, and in its fault tolerant design. All this, in addition to our innovative battery monitoring system, delivers the utmost in protection.
Services Can Provide Local or Remote Coverage, 24x7

Critical Services and Support

LIFE Services, offered by Emerson Network Power, provides increased uptime and operational efficiency through continuous monitoring, expert analysis, and proactive response that ultimately helps you optimize the health of the Liebert® eXM™ UPS and have peace of mind.

Detailed parametric data is continuously captured with advanced technology embedded in the Liebert eXM UPS. The data is transmitted safely and efficiently to an authorized Emerson remote service center staffed with system engineers. Should an operating anomaly or alarm condition arise, the engineer performs an immediate analysis and initiates an appropriate response to quickly, safely, and accurately restore to its proper operating condition.

- 24x7 continuous remote monitoring
- Expert analysis and diagnosis
- Quick, safe and accurate response

Emerson Network Power, Liebert Services

Maximizing the performance and efficiency of your data center’s uninterruptible power supply (UPS) and other power distribution systems requires systems be properly maintained by factory-trained technicians. Trust Emerson Network Power, Liebert Services to take your critical maintenance to the next level — proactive maintenance that can significantly extend the life of your power systems, decrease your capital investment, optimize system efficiency and effectiveness, and increase overall system availability.

Emerson Network Power, a business of Emerson (NYSE:EMR), is the world’s leading provider of critical infrastructure technologies and life cycle services for information and communications technology systems. With an expansive portfolio of intelligent, rapidly deployable hardware and software solutions for power, thermal and infrastructure management, Emerson Network Power enables efficient, highly-available networks.
<table>
<thead>
<tr>
<th>Liebert eXM™ UPS Specifications</th>
<th>208V Native</th>
<th>208V Native</th>
<th>480V Native</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Rating – kW/kVA</strong></td>
<td>10, 15, 20, 30, 40</td>
<td>60, 80, 100, 120, 140, 160, 180, 200</td>
<td>50, 100, 150, 200, 250</td>
</tr>
<tr>
<td><strong>Internal Battery Supported</strong></td>
<td>Y</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td><strong>Input AC Specifications</strong></td>
<td>Phase / Power Factor / Freq Range</td>
<td>3 / 0.99 lagging minimum at full load / 40-70 Hz</td>
<td></td>
</tr>
<tr>
<td>Input Voltage</td>
<td>208, 220, 480 VAC, 60Hz/3-phase, 4-wire plus ground</td>
<td>480 VAC, 60Hz/3-phase, 3-wire plus ground</td>
<td></td>
</tr>
<tr>
<td><strong>Battery Specifications</strong></td>
<td>Battery Test Type / Battery Technology</td>
<td>Online / Valve-regulated lead acid battery</td>
<td></td>
</tr>
<tr>
<td><strong>Output AC Specifications</strong></td>
<td>Voltage</td>
<td>208/120, 220/127VAC, 60Hz/3-phase, 3- or 4-wire plus ground</td>
<td>480VAC, 60Hz/3-phase, 3-wire plus ground</td>
</tr>
<tr>
<td><strong>Frequency – Hz</strong></td>
<td></td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Communications</strong></td>
<td>Options</td>
<td>3 Liebert IntelliSlots</td>
<td></td>
</tr>
<tr>
<td>Card Compatibility</td>
<td>IS-UNITY-DP, IS-UNITY-LIFE, IS-485EXI, IS-RELAY</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Protocols Available</strong></td>
<td>MODBUS-IP, MODBUS-485, BACNET-IP, BACNET-MSTP, SNMP, HTTP, LIFE™ Services, Relay Contacts</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Environmental Sensors</strong></td>
<td>Temperature, Humidity, Temperature/Humidity Combination, Contact Closure</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Physical Data UPS</strong></td>
<td>UPS Rating</td>
<td>Unit Weight (lb)</td>
<td>Dimensions, W X D X H in (mm)</td>
</tr>
<tr>
<td>10kVA, 15kVA, 20kVA</td>
<td>604 (274)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td>748 (339)</td>
</tr>
<tr>
<td>30kVA, 40kVA</td>
<td>678 (307.5)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>50kVA</td>
<td>N/A</td>
<td>N/A</td>
<td>748 (339)</td>
</tr>
<tr>
<td>60kVA</td>
<td>807 (366)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td>842 (382)</td>
</tr>
<tr>
<td>80kVA</td>
<td>881 (399.6)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>100kVA</td>
<td>955 (433.1)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>120kVA</td>
<td>1221 (553.8)</td>
<td>34.6 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>140kVA</td>
<td>1295 (587.4)</td>
<td>34.6 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>150kVA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>160kVA</td>
<td>1368 (620.5)</td>
<td>34.6 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>180kVA</td>
<td>1442 (654)</td>
<td>34.6 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td></td>
</tr>
<tr>
<td>200kVA</td>
<td>1516 (687.6)</td>
<td>34.6 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td>1030 (467)</td>
</tr>
<tr>
<td>250kVA</td>
<td>N/A</td>
<td>N/A</td>
<td>4907 (2226) with HX540 batteries</td>
</tr>
<tr>
<td><strong>Physical Data Ancillaries</strong></td>
<td>Weight (lb)</td>
<td>Dimensions, W X D X H in (mm)</td>
<td>Weight (lb)</td>
</tr>
<tr>
<td>600mm Bypass Distribution Cabinet</td>
<td>550 (250)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td>N/A</td>
</tr>
<tr>
<td>300mm Maintenance Bypass Cabinet</td>
<td>288 (131)</td>
<td>11.8 x 39.5 x 78.7 (300 x 1000 x 2000)</td>
<td>288 (131)</td>
</tr>
<tr>
<td>200mm Maintenance Bypass Cabinet</td>
<td>198 (90)</td>
<td>7.9 x 39.5 x 78.7 (200 x 1000 x 2000)</td>
<td>198 (90)</td>
</tr>
<tr>
<td>1200mm Battery Cabinet¹</td>
<td>N/A</td>
<td>N/A</td>
<td>4907 (2226) with HX540 batteries</td>
</tr>
<tr>
<td>880mm Battery Cabinet²</td>
<td>3649 (1656)</td>
<td>34.7 x 39.5 x 78.7 (880 x 1000 x 2000)</td>
<td>2962 (1344) with HX300 batteries</td>
</tr>
<tr>
<td>600mm Battery Cabinet²</td>
<td>2454 (1114)</td>
<td>23.6 x 39.5 x 78.7 (600 x 1000 x 2000)</td>
<td>N/A</td>
</tr>
<tr>
<td>320mm Battery Cabinet³</td>
<td>1422 (650)</td>
<td>12.6 x 39.5 x 78.7 (320 x 1000 x 2000)</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td>Operating Temperature, °F (°C): UPS: 32° to 104°F (0-40°C); Battery: 68° to 86°F (20-30°C), Relative Humidity: 0% to 95%, non-condensing. Operating Altitude: Up to 3,300 ft. (1,000m) without derating. Acoustical Noise, db, at 39 in.: Less than 59 dBA typical, 3.3 ft. (1m) from the unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Agency/Certification/Conformance</strong></td>
<td>Listed to UL 1778 and CSA certified. Meets current requirements for safe high performance UPS operation. ENERGY STAR® qualified</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>Standard</td>
<td>1 year</td>
<td></td>
</tr>
</tbody>
</table>

¹480 and 600VAC inputs are available through use of a bypass distribution cabinet with an input transformer, or a dual input transformer cabinet
²Cabinet accommodates internal Albér BDSII
³Cabinet accommodates external Albér BDSII

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