

Services  
For *Business-Critical Continuity™*

# Battery Management Solutions

Your UPS And Batteries. One System. One Source For Total Service.



# Battery Management From Liebert Services: Bringing You Peace Of Mind

**Batteries are an integral part of your critical power protection system...without a proactive strategy for maintaining your battery system, you'll never have complete confidence in your UPS. No one has a better understanding of what it takes to give you that peace of mind than Liebert.**

## **Don't Let Your Critical Power Investment Be Wasted**

Your UPS is only as reliable as its batteries — without healthy batteries, it will not be able to provide proper backup. This makes the battery string the weakest link in the system. One bad cell can bring down the entire system.

Taking the “don't worry about them until there is a failure” approach is a threat to system uptime because you will never really know when a failure is imminent. A program of maintenance, testing and monitoring keeps you informed about the real condition of your batteries.

It is a simple equation—battery maintenance equals battery reliability.



## **What Makes Liebert Services More Qualified To Service Your Battery System?**

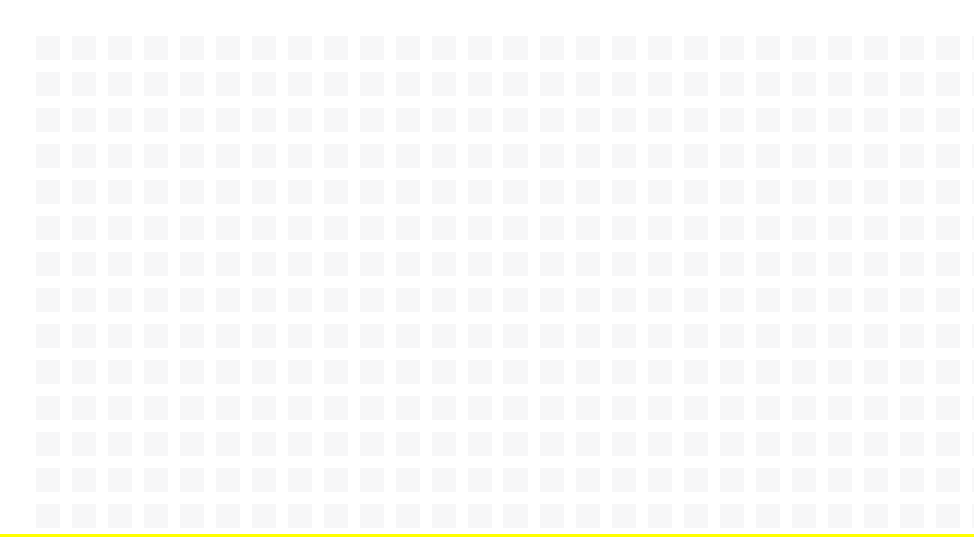
The complexity of battery systems is often underestimated. They require highly-trained experts to maintain them properly.

As the manufacturer of Liebert power products, no one knows your equipment better—especially if we are already providing maintenance to your UPS and other electrical hardware. Our intimate knowledge of your complete power system makes us more qualified and better trained than third-party maintenance providers to service your entire power system — including your batteries.

## **One Source Makes Sense**

Having Liebert Services provide battery maintenance as well as UPS service makes good business sense. You get the convenience and efficiency of having just one provider that truly knows your entire mission-critical power system and its operation. You'll gain the added convenience of having any necessary UPS, battery or critical power systems testing and maintenance performed at the same time. The result is quicker response and better overall service to your total system.







## We Offer A Full Range Of UPS Battery Services

**Liebert Services can provide complete service for your battery system as well as new batteries when it's time to replace them.**

### **Battery Maintenance: Assuring The Reliability Of Your UPS System**

Liebert Services offers a full range of battery maintenance services, including preventive maintenance, inspections and testing for both vented lead acid (VLA or “flooded”) and valve regulated lead acid (VRLA) batteries. We will make sure batteries are operating properly and within manufacturers’ specifications with onsite visits by experienced professionals.

Proactive battery maintenance helps you maximize battery efficiency and minimize risk of downtime. It will spot problems such as loose connections, corrosion, leaking or cracked cells, swelling, low voltages, high internal resistances and high temperatures.

By planning a regular preventive maintenance schedule—quarterly for VRLA, monthly/quarterly for VLA—you can better determine your battery end-of-life and manage your replacement schedule.



### **Battery Replacement: Expert Installation Of New Systems And Removal Of Old Cells**

Liebert Services offers complete battery replacement solutions. If your VRLA batteries have been in service for four or more years, it may be time to schedule an evaluation of their condition in order to keep your UPS system providing the protection you require.

If a power outage occurs, even a single bad cell in a string of batteries could compromise your entire backup system and leave you without protection. Proactively replacing your batteries will help to keep your system running up to specifications and minimize the risk of downtime to your business operations.

Most importantly, our replacement services include both expert installation of new cells and proper recycling of spent batteries. When you buy a battery, you own it from “cradle-to-grave.” What happens to your spent batteries when you choose another provider? When you choose Liebert Services, you’ll have the confidence of knowing that the batteries we removed were disposed of and recycled properly and according to all government and industry regulations. We’ll even manage the regulatory paperwork you require.

### **Battery Monitoring: Identifying Potential Problems For Proactive Response**

Over the years, we have seen the importance of proper battery testing as the key to predicting performance. Without it, you may be left in the dark about your battery system’s ability to perform when you need it most. An effective plan for battery monitoring can deepen your knowledge of your battery system, and allow you to more proactively prepare for battery replacement. In fact, Liebert feels so strongly about the importance of battery testing and monitoring that we recently partnered with Albér, a leader in UPS battery monitoring technology since 1972.

Albér technologies integrated with Liebert are designed to prevent battery failure, optimize useful battery life, reduce maintenance costs and increase safety. Liebert Services utilizes this state-of-the-art battery monitoring technology as part of our battery services offerings.

### **Battery Life: Complete Protection From Cradle-To-Grave**

With the “Battery Life” program from Liebert Services you gain complete peace of mind. This full-service contract includes regular preventive maintenance and service for batteries plus full-string replacement when required.

By choosing a “Battery Life” program you gain the assurance of knowing that your battery systems will receive proper maintenance to the manufacturers’ specifications and the comfort of knowing that your batteries will be replaced proactively.



### **The Real Value Of Battery Services**

Proper battery management costs you money. System downtime will cost significantly more. Without proper, proactive UPS battery management and maintenance, your critical business processes could be shut down cold.


With a professional battery maintenance program in place, Liebert Services can greatly reduce your vulnerability to sudden power protection failure — and reduce your total cost of ownership.

### **Why Trust Anyone Else?**

Your UPS system and the batteries on which it relies are designed to protect the continuity of your business-critical operations. If you choose another partner — do they have the capability to protect your systems?

With Liebert Services, you're backed by the confidence of our industry-leading technical support and service response team that has the experience of replacing thousands of battery strings. You also gain the convenience of single-source service for your entire power system.

But, the most important benefit is what you get after the service is completed. With access to 1-800-LIEBERT you gain peace of mind; knowing an industry expert is just a phone call away, day or night, should you experience a problem with your system.

A world map with a grid overlay, colored in shades of orange and yellow. Numerous blue dots are scattered across the map, representing service locations. The dots are most densely clustered in North America and Europe, with more sparse distributions in South America, Africa, Asia, and Australia.

Liebert Services has you covered coast-to-coast, continent-to-continent with the largest network of sales and service locations throughout the world and 50% more Customer Engineers in the field than any other competitive provider .

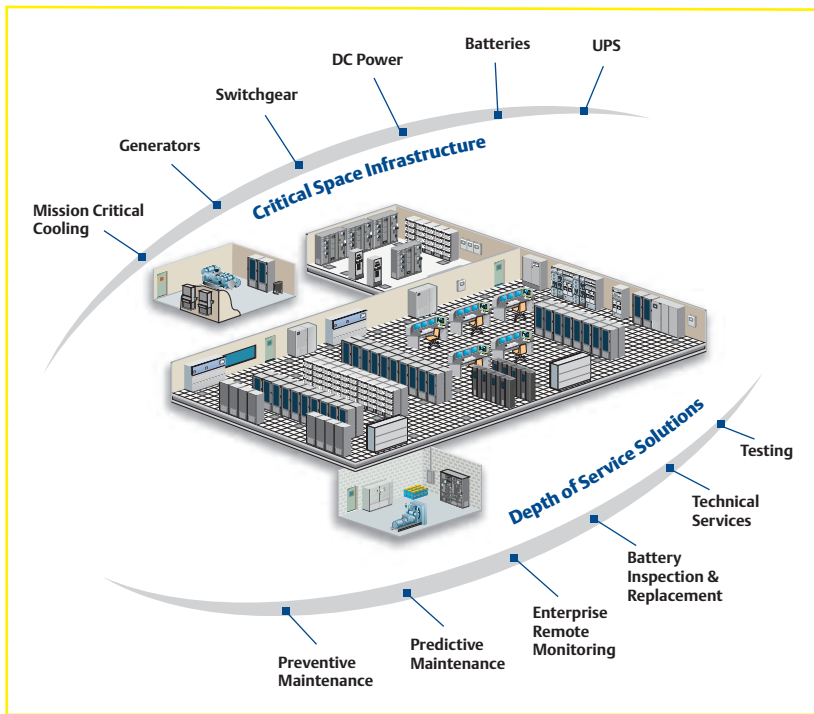


**Call The Battery Experts**

You're only a phone call away from Liebert Services—the premier provider of UPS and battery care. Call 1-800-LIEBERT for more information on our full range of battery maintenance capabilities or any of our other critical space services.

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CS-00084 (R03/08)  
Printed in USA

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