

Battery Maintenance

Your UPS Is Only As Reliable As Its Batteries



When you purchased your Liebert UPS System, you made an investment in the best power protection system in the industry. A critical part of any UPS, however, is the battery system. Without properly operating batteries, no UPS system can do its job. And without adequate power backup your operations are at risk.

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 your 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 identify problems such as loose connections, corrosion, leaking or cracked cells, swelling and high temperatures. By planning a regular preventive maintenance schedule — quarterly for VRLA, monthly for VLA — you can better determine your battery health and end-of-life as well as manage your replacement schedule.

There May Be Problems You Can’t See

Minor irregularities in your incoming utility power routinely cause current to be drawn from your UPS system’s batteries. As batteries are used, it is normal for their charging capacity to diminish. This is why a typical VRLA battery will last only four to five years. Other undetected problems can also cause battery failure when you can least afford it:

- High temperatures
- Cracks and leaks
- Corrosion
- Undercharging or overcharging
- Shorted or open cells
- Dryout

Any of these conditions can cause the deterioration of your battery to go unnoticed until it is too late.

Detect The Problems You Can't See With Preventive Maintenance

It is extremely important to make sure batteries are operating properly and within manufacturers' specifications.

In fact, your battery warranty may even be voided if proper maintenance is not provided.

Onsite visits by Liebert Services experienced professionals help to spot problems, including loose connections, corrosion, leaking or cracked cells, swelling, high temperature and potential load loss.

Proactive battery maintenance helps you maximize battery performance and minimize risk of downtime. By planning a regular preventive maintenance schedule, you will be in a position to better determine battery health, estimated end-of-life and formulate a replacement schedule.

A Full Range Of Preventive Maintenance Capabilities

Liebert Services offers a full range of preventive maintenance inspection and testing services for UPS battery systems. Following IEEE Standards for VRLA and VLA type batteries, as well as OEM specifications and requirements, these services include:

- Total battery float voltage
- Cell/jar voltage
- Cell internal resistance
- Inter-cell resistance
- DC current
- AC ripple voltage and current
- Positive and negative voltage to ground
- Ambient and jar temperature
- Visual inspection of cells and connections
- Capacity testing
- Specific gravity (flooded cells)

Liebert Services Is Your Best Choice For Total Battery Care

Liebert Services offers "one source" convenience for all your UPS and battery services. We deliver a level of trust and credibility that many third-party service providers simply cannot guarantee. This is because we know your equipment better than anyone else, and we replaced several thousand battery strings and in excess of 178,000 batteries last year alone. You can count on us to know everything there is to know about your Liebert power system.

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