

# POWER PREVENTIVE MAINTENANCE

Preventive Maintenance



## BENEFITS

### Protect Power System Availability

Data center downtime is expensive, costing an average facility more than \$740,000 per outage. And the impact of a power system failure is far reaching when considering potential damage to data and equipment, business disruption, remediation costs, legal ramifications, and damage to your brand and reputation. Avoiding these significant costs is a simple matter of prevention.

A regular preventive maintenance program performed by expert technicians is the key to ensuring maximum reliability of data center equipment including batteries, uninterruptible power supply (UPS) units, and power distribution. System issues that are just beginning to appear are detected through systematic inspection. This process allows you to correct these issues before they translate into a costly downtime event.

### Benefits

- Maximize power system availability
- Avoid costly unplanned downtime
- Extend the useful life of power system equipment
- Minimize emergency repairs



### Utilize a proven approach for dramatically increasing the reliability and availability of your data center's power system

While UPS systems are designed to offer power stability and protection, they are not failure proof.

Factors such as application, installation, design, component manufacturing, real-world operating conditions, and maintenance practices can impact the reliability and performance of these systems.

Fortunately, a program of scheduled preventive maintenance and proactive replacement of key UPS components and batteries can greatly reduce the chances for failure during power outages, utility spikes, switching transients, incidents of line noise, and other unexpected power related issues.

Preventive maintenance performed by highly skilled, factory-trained technicians has been proven to increase the reliability of power systems. One study revealed that the mean time between failures (MTBF) of UPS units that received two preventive maintenance visits a year is 23 times better than a unit having no preventive maintenance. The importance of regular service is clear.

Our power preventive maintenance services include:

- Operational checks
- Component replacement
- Comprehensive report

## Operational Checks

During a power preventive maintenance visit, all high-temperature areas within the data center are reported and repaired as to not affect critical component and UPS unit performance.

In addition to inspection maintenance of individual batteries, a complete visual inspection is performed including checks of the following:

- Subassemblies
- Wire Harnesses
- Contacts
- Cables
- Air filters
- Other major components

Inverter and rectifier boards, and all mechanical connections, are also checked for heat discoloration and tightness.

## Component Replacement

All power systems contain life-limited components that need to be replaced according to the manufacturer's specifications. And as the service team for Liebert® equipment, Vertiv™ Services knows your power system best.

Our team replaces any life-limited component that may have failed or shows signs of failure. We replace swelled and leaking power AC and DC capacitors.

Our technicians, who have direct access to engineering specifications from the original equipment manufacturer (OEM), will also install all factory-recommended field change notices as needed.

## Comprehensive Report

Reports on all preventive maintenance activities are automatically generated and are easily accessible via a robust, web-based customer portal.

These reports provide peace of mind that all necessary maintenance was performed. They also include recommendations for system improvements from the OEM's service team, which is specifically trained to optimize the performance of your Liebert power equipment.

## Summary

There are many threats lurking in the power system that can take down a data center. To significantly lower your risk and avoid the heavy financial impact of data center downtime, regular inspection and maintenance is needed.

Implementing a comprehensive preventive maintenance program where service is performed by highly experienced and OEM-trained technicians is the key for maximizing power system availability.

## Ordering Information

To learn more about this service and other Vertiv solutions, visit [VertivCo.com](http://VertivCo.com) or call 1-800-543-2378.

	Preferred	4 Response Time (Hours)	● Preventive Maintenance 24x7	● Preventive Maintenance 8x5	● Emergency
Essential	4		●	●	
Basic	4				●
PM Only	n/a	●	●		