



Uninterrupted Power System (UPS) Preventative Maintenance

PROTECT YOUR INVESTMENT...

With a UPS preventative maintenance program from Johnson Battery.

Johnson Battery's comprehensive preventative maintenance program is designed to reduce the risks of component failure or operating issues that can create costly downtime.

✓ Designed System Analysis

- Load sizing & profile
- Run time calculations

✓ Detailed Electronic Service Reporting:

- Reports are delivered electronically within 5 business days of the completed service.

✓ Training & Technical Support

- On-Site training is provided to each client on the capability and operating of their UPS system.
- Technical support is available at no additional charge.

✓ Emergency Response

- Priority scheduling is provided for UPS systems enrolled in our preventative maintenance program. Guaranteed response times can be established as needed.



UPS PREVENTATIVE MAINTENANCE PACKAGES

BRONZE Package

(1) Annual Service
+
(1) Battery Preventative Maintenance

(Parts Billed Separately)

SILVER Package

(1) Annual Service +
(1) Semi-Annual Service +
(2) Battery Preventative Maintenance

(Parts Billed Separately)

GOLD Package

(1) Annual Service +
(1) Semi-Annual Service +
(2) Battery Preventative Maintenance

(Parts Included)

OPTIONAL: Continuous Battery Monitoring with Remote Access

Johnson Battery Company, Inc.

Corporate: 6487 US Highway 19 South • Zebulon, GA 30295

Phone: 800.634.2801 • Fax 770.567.9704



Uninterrupted Power System (UPS) Preventative Maintenance

SEMI ANNUAL SERVICE

1. Check display for any alarms or fault codes.
2. Perform a complete visual inspection of all internal sub-assemblies, wiring harnesses, contactors, cables and major components for overheating and damage.
3. Perform temperature checks on all breakers, connections, and capacitors. Report all high temperature area.
4. Inspect all AC and DC capacitors for signs of swelling or leakage.
5. Inspect air filters for cleanliness. Replace if needed with customer provided filters.
6. Inspect cooling fans for proper operation.
7. Measure and record input voltages and currents.
8. Measure and record output voltages and currents.
9. Measure and record input and output frequency.
10. Perform thermal scan of all possible electrical connections.

ANNUAL SERVICE

1. Perform all items listed in the Semi-Annual Service plus the additional items listed.
2. Check all wiring terminations for proper torque.
3. Check torque on all battery connections.
4. Check and adjust control calibrations as necessary. (Not applicable to all units).
5. Check all circuit breakers for free movement.
6. Perform a manual transfer from UPS system to normal bypass and normal bypass to UPS system.
7. Perform a simulated power outage test to verify automatic transfer.
8. Place unit back into service.
9. Clean interior and exterior of units.

**To perform the Annual Service, the unit will have to be placed in maintenance bypass and power removed from the unit. This is to be done with Owner's permission prior to performing the process.

**Air filters should be checked on a monthly basis and replaced as needed.

BATTERY PREVENTIVE MAINTENANCE

1. Inspect battery system for any corrosion, swelling or leaking.
2. Record ambient room temperature.
3. Measure and record DC float voltage and current.
4. Measure and record AC Ripple voltage and current.
5. Clean normal cell dirt/dust accumulation.
6. Measure and record temperature at negative post.
7. Measure and record the conductance of each cell/jar where applicable.
8. Verify proper torque on 10% of connections where applicable.

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