

A major performance inspection on the UPS includes the following procedures:

1. Inspect all connections, components and wiring for overheating wear and unusual signs.
2. Spot check all power connections for proper torque.
3. Inspect all system level controls.
4. Inspect and verify all inverter module controls.
5. Inspect frequency synchronization of all power inverter modules to available bypass power.
6. Repair and correct any fault, damaged, discolored and worn components.
7. Inspect and verify system auto-transfer when available.
8. Inspect and verify manual transfer from the UPS system to static bypass and from static bypass to UPS mode.
9. Check and verify UPS System output voltage adjustments.
10. Complete all logic adjustments, including input voltage/frequency parameters, output voltage/frequency parameters, float voltage setting, frequency setting, etc.

An on-line performance inspection on the UPS includes the following procedures:

1. Inspect all connections, components and wiring for overheating wear and unusual signs.
2. Inspect all system level controls.
3. Inspect and verify all inverter module controls.
4. Inspect frequency synchronization of all power inverter modules to available bypass power.

5. Check and verify UPS System output voltage.
6. Take panel reading on all equipment:
 - A) Input Voltage/Current
 - B) Output Voltage/Current
 - C) Load
 - D) Battery Voltage/Current
7. Perform lamp test. Replace bad lamp bulbs.
8. Verify fans are operating.
9. Replace airfilters if needed.

A minor preventative maintenance inspection on the battery system includes the following procedures:

1. Inspect the appearance and cleanliness of the battery and the battery room.
2. Measure and record the total battery float voltage.
3. Visually inspect the jars and covers for cracks and leakage.
4. Visually inspect for evidence of corrosion and clean if necessary.
5. Measure and record the ambient temperature.
6. Verify the condition of the ventilation equipment, if applicable.
7. Verify the integrity of the battery rack/cabinet.
8. Randomly measure and record representative cell temperatures.
9. Measure and record the float voltage of all cells.
10. Randomly check the tightness on 10% of the inter-unit connectors, when unit can be taken off-line.
11. Randomly check ten percent (10%) of the battery connection resistances (when applicable) and internal ohmic values of all units.



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A major preventative maintenance inspection on the battery system includes the **above**, plus following procedures:

12. Re-tighten all battery connections to the battery manufacturer's specifications.
13. Measure and record all battery connection resistances in micro-ohms, when applicable.
14. Measure and record all internal impedance readings.