



## GRAVITY POWER SOLUTION

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Power Solutions | UPS Rental & AMC | Battery Sales & Buyback | E-Waste Recycling

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### UPS BATTERY MAINTENANCE CHECKLIST

#### Comprehensive Preventive Maintenance Checklist for SMF, Tubular & Industrial UPS Battery Banks

<b>Safety &amp; Environment Checks</b> Ensure battery room is clean, dry, and well ventilated. Confirm ambient temperature is within 20–25°C. Check for absence of open flames or sparks near batteries. Verify availability of PPE (gloves, goggles) Ensure proper battery room signage and restricted access.	<b>Visual Inspection Check</b> Battery Containers for Cracks or Leakage. Inspect Batteries for Swelling or Bulging Ensure Battery Racks Are Rust-Free and Stable Check Intercell Connectors for Discoloration Verify Labels and Polarity Markings Are Clearly Visible.
<b>Battery Electrical Checks</b> Measure individual battery block voltage. Record string voltage and compare with design value. Check voltage imbalance between battery blocks. Measure float charging voltage at UPS. Verify boost/equalize charge settings.	<b>Connection &amp; Terminal Checks</b> Inspect battery terminals for corrosion. Clean terminals using approved solution if required. Ensure all terminal bolts are properly tightened Check lug condition and cable insulation. Verify no loose or overheated connections.
<b>Battery Health &amp; Performance Measure</b> internal resistance or conductance if applicable. Check battery temperature consistency across string. Identify weak or underperforming battery blocks. Verify battery backup time during controlled test. Check battery age against expected service life.	<b>Charging &amp; UPS Interaction</b> Verify UPS charger current stability. Check charger ripple current levels. Confirm automatic return to float mode after discharge. Verify charging alarms and protection settings
<b>Housekeeping &amp; Safety</b> Ensure battery tops are clean and dust-free Confirm no tools or metal objects left on batteries Check floor insulation mats condition Verify emergency exit accessibility.	<b>Documentation &amp; Reporting</b> Record all battery voltage and temperature readings. Note weak batteries and replacement recommendations. Update battery maintenance logbook. Prepare preventive maintenance service report. Obtain client acknowledgment and next visit date



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