

Uninterruptible Power Supply (UPS) Battery Health Checklist

 Show only Checklist

Display Style
Default 

Visual Inspection

Initial assessment for physical damage or abnormalities.

Battery Enclosure Condition (1-5, 1=Excellent, 5=Poor)

Enter a number...

Evidence of Corrosion?

- ☐ Yes
- ☐ No
- ☐ Unsure



Battery Swelling/Bulging?

- ☐ Yes
- ☐ No
- ☐ Unsure

Detailed notes on enclosure condition (e.g., scratches, dents, leaks)

Write something...

Upload photos of battery enclosure

 Upload File

Evidence of Liquid Spillage?

- ☐ Yes
- ☐ No
- ☐ Unsure

Number of Batteries Visually Damaged

Enter a number...

Battery Voltage and Temperature

Measure individual battery voltage and temperature to identify potential issues.

Battery 1 Voltage (V)

Battery 2 Voltage (V)

Battery 3 Voltage (V)

Battery 4 Voltage (V)

Battery 5 Voltage (V)

Battery 6 Voltage (V)

Battery 1 Temperature (°C)

Battery 2 Temperature (°C)

Notes on Voltage/Temperature Readings

Battery Capacity Testing

Evaluate battery performance under load to determine remaining capacity.

Battery Capacity Test Duration (minutes)

Initial Voltage (V) during test**Final Voltage (V) after test****Peak Discharge Current (A) during test****Discharge Capacity Achieved (%)****Test Result**

- ☐ Pass - Meets Specifications
- ☐ Marginal - Below Specifications
- ☐ Fail - Significantly Below Specifications

Notes/Observations during Capacity Test**Date of Capacity Test**

UPS System Logs & Events

Review UPS system logs for any error messages or warnings related to battery performance.

Review UPS system logs for recent error messages.

Write something...

Note any warnings related to battery voltage or temperature.

Write something...

Record number of battery-related alarms in last 24 hours.

Enter a number...

Document any instances of UPS transferring to battery power (utility outage) and duration.

Write something...

Indicate if firmware version is current (refer to manufacturer recommendations).

- ☐ Yes
- ☐ No
- ☐ N/A

Note any recurring error codes or patterns in the logs.

Write something...

Maintenance Records Review

Check historical maintenance records to track battery performance trends and previous issues.

Last Battery Replacement Date

Enter date...

Battery Age (in months)

Enter a number...

Summary of Previous Battery Testing Results

Write something...

Previous Battery Type

- ☐ Lead-Acid
- ☐ Lithium-Ion
- ☐ Other

Previous Battery Capacity (kVAh)

Enter a number...

Date of Last Battery Maintenance (e.g., cleaning, equalization)

Enter date...

Notes/Observations from Previous Inspections

Write something...

Environmental Conditions

Assess the UPS battery environment for temperature, humidity, and ventilation.

Ambient Temperature (°C)

Enter a number...

Battery Cabinet Temperature (°C)

Enter a number...

Relative Humidity (%)

Enter a number...

Ventilation Adequacy

☐ Excellent

☐ Good

☐ Fair

☐ Poor

Dust/Debris Accumulation

- ☐ None
- ☐ Minor
- ☐ Moderate
- ☐ Significant

Notes on Environmental Conditions

Write something...

Connection & Wiring Integrity

Inspect battery connections and wiring for corrosion, looseness, or damage.

Battery Terminal Voltage (each battery)

Enter a number...

Terminal Condition (Clean/Corroded/Damaged)

- ☐ Clean
- ☐ Slight Corrosion
- ☐ Moderate Corrosion
- ☐ Significant Corrosion
- ☐ Damage Present

Wiring Condition (Intact/Frayed/Damaged)

- ☐ Intact
- ☐ Minor Fraying
- ☐ Moderate Damage
- ☐ Significant Damage

Torque on Battery Terminal Connections (Nm/lb-in)

Enter a number...

Connection Security (Tight/Loose/Questionable)

- ☐ Tight
- ☐ Slightly Loose
- ☐ Loose

Notes on Wiring/Connections

Write something...