



# Uninterruptible Power Supply (UPS) Maintenance Checklist

12 planned preventive maintenance tasks · Free PDF from PM Assist

A practical starting point for planned preventive maintenance. Always refer to the manufacturer's O&M manual and site-specific requirements.

## Visual Checks

- ☐ Inspect batteries for swelling, leaks, corrosion, or discolouration
- ☐ Verify the battery room ventilation is adequate
- ☐ Inspect cabling and connections for tightness and condition

## Functional Checks

- ☐ Check UPS status display for alarms, warnings, or fault conditions
- ☐ Verify the UPS is operating in normal (online) mode
- ☐ Check battery voltage, current, and temperature
- ☐ Test the static bypass switch operates correctly
- ☐ Check the load level as a percentage of UPS rated capacity
- ☐ Check input and output voltage, current, and frequency

## Safety Checks

- ☐ Test the UPS alarm interface to the BMS or monitoring system
- ☐ Verify the maintenance bypass is operational and labelled

## Record Keeping

- ☐ Record all operating parameters, battery condition, and alarm status

## Maintenance Frequency

### Monthly

- Check status display and alarms
- Record load level and battery voltage
- Visual battery inspection

### Quarterly

- Battery impedance test
- Check bypass operation
- Thermal scan of connections

### Annually

- Full UPS service by specialist engineer
- Battery discharge test
- Capacitor and fan inspection
- Firmware update check