



Solar PV System Maintenance Checklist

10 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 panels for soiling, shading, cracks, hot spots, and delamination
- ☐ Inspect DC and AC connections, isolators, and cabling for damage and heat
- ☐ Check mounting, fixings, and roof penetrations for security and weathertightness

Functional Checks

- ☐ Check inverter operation, error logs, and cooling/ventilation
- ☐ Verify generation against expected yield via the monitoring system
- ☐ Inspect string fuses, surge protection, and combiner boxes

Cleaning & Housekeeping

- ☐ Clean panels where soiling is reducing generation

Safety Checks

- ☐ Test DC and AC isolation and emergency shutdown arrangements
- ☐ Confirm labelling and firefighter isolation signage are correct

Record Keeping

- ☐ Record generation, inverter status, and inspection findings in the log

Maintenance Frequency

Quarterly

- Review generation vs expected via monitoring
- Visual panel and inverter check
- Confirm no inverter faults

Annually

- Full inspection and panel clean
- Inverter service and connection checks
- Isolation and DC safety testing
- Mounting and weathertightness inspection