



Solar Panel Maintenance Checklist Template

 Show only Checklist

Display Style
Default 

Visual Inspection

Check for any visible damage, debris, or discoloration.

Panel Condition

Write something...

Describe any visible damage

Write something...



Upload photos of panel condition

 Upload File

Number of cracked cells (if any)

Enter a number...

Evidence of Delamination?

☐ Yes

☐ No

Evidence of discoloration?

☐ Yes

☐ No

Notes on Frame Condition

Write something...

Panel Cleaning

Remove dirt, dust, and other debris to maximize energy production.

Cleaning Date

Enter date...

Cleaning Start Time

Enter time...

Cleaning Method Used

- ☐ Water & Brush
- ☐ Deionized Water
- ☐ Specialized Solar Panel Cleaner

Water Pressure (PSI)

Enter a number...

Cleaning Notes

Write something...

Panel Temperature (°C)

Enter a number...

Wiring and Connections

Inspect wiring, connectors, and junction boxes for corrosion, damage, or loose connections.

Wire Gauge (AWG)

Connector Type

☐ MC4☐ Other

Connector Manufacturer

Comments on Wire Condition

Corrosion Present?

☐ Yes☐ No

Torque Value (Nm/lb-in)

Inverter Performance

Monitor inverter status, error codes, and output power to ensure optimal operation.

DC Voltage (V)

Enter a number...

AC Voltage (V)

Enter a number...

Output Power (kW)

Enter a number...

Efficiency (%)

Enter a number...

Error Codes Present?

☐ None

☐ Yes, See Long Text

☐ N/A

Error Code Details (If Applicable)

Write something...

Last Firmware Update Date

Enter date...

Time of Reading

Enter time...

Mounting Structure

Examine mounting hardware and structure for corrosion, looseness, or signs of stress.

Torque Value (Nm/ft-lbs)

Enter a number...

Mounting Bolt Condition (1-10, 10=Excellent)

Enter a number...

Corrosion Present?

- ☐ Yes
- ☐ No

Description of any corrosion observed

Write something...

Mounting Hardware Integrity?

- ☐ Intact
- ☐ Cracked
- ☐ Deformed
- ☐ Missing

Distance Between Mounting Points (mm/in)

Enter a number...

DC Disconnect Switch

Verify proper operation and labeling of the DC disconnect switch.

Switch Identification Number

Write something...

Last Inspection Date

Enter date...

Switch Voltage (V)

Enter a number...

Switch Operational Status

- ☐ Functional
- ☐ Malfunctioning
- ☐ Needs Repair

Notes / Observations

Write something...

Inspector Signature

Grounding System

Check grounding connections and ensure proper grounding integrity.

Grounding Conductor Visual Inspection Notes

Write something...

Ground Resistance Value (Ω)

Grounding Connection Condition

☐ Good☐ Fair☐ Poor

Last Grounding System Inspection Date

Any observed corrosion on grounding components?

Grounding system bonding integrity?

☐ Verified☐ Not Verified

Vegetation Management

Ensure surrounding vegetation is trimmed to prevent shading and maintain airflow.

Distance to Nearest Vegetation (ft)

Vegetation Type

- ☐ Trees
- ☐ Bushes
- ☐ Grass
- ☐ Vines
- ☐ Other

Description of Vegetation Concerns

Write something...

Last Trimming Date

Enter date...

Trimming Required?

- ☐ Yes
- ☐ No

Notes on Trimming Actions (if applicable)

Write something...

Performance Monitoring

Review system performance data and compare to expected values to identify anomalies.

DC Voltage (V)

AC Voltage (V)

DC Current (A)

AC Current (A)

Power Output (kW)

Date of Performance Check

Time of Performance Check

Performance Notes/Observations

Documentation

Record maintenance activities, observations, and any repairs performed.

Date of Inspection

Time of Inspection

Observations/Notes

Write something...

Panel Voltage (V)

Enter a number...

Panel Current (A)

Enter a number...

Technician Signature

Next Scheduled Maintenance

- ☐ 30 Days
- ☐ 60 Days
- ☐ 90 Days
- ☐ Other