

# 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)

## AC Voltage (V)

## Output Power (kW)

## Efficiency (%)

## 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 ( $\Omega$ )

### 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