

Solar Panel System Inspection Checklist Template

 Show only Checklist

Display Style
Default 

Panel Condition & Performance

Assesses physical damage and energy production.

Panel Voltage (V)

Enter a number...

Panel Current (A)

Enter a number...



Panel Temperature (°C)

Enter a number...

Visible Damage (Cracks, Discoloration)

- ☐ None
- ☐ Minor
- ☐ Moderate
- ☐ Severe

Panel Soiling (Dirt, Debris)

- ☐ None
- ☐ Light
- ☐ Moderate
- ☐ Heavy

Panel Performance Notes (Production compared to expectations)

Write something...

Panel Image (Optional)

 Upload File

Wiring & Electrical Connections

Evaluates the integrity and safety of electrical components.

Wire Gauge (AWG)

Wire Insulation Condition

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Damaged

Connector Security

- ☐ Secure
- ☐ Loose
- ☐ Corroded
- ☐ Disconnected

Voltage Reading (V)

Continuity Test Result (Ω)

Enter a number...

Notes on Wiring or Connections

Write something...

Grounding Condition

- ☐ Good
- ☐ Questionable
- ☐ Missing

Mounting Structure & Hardware

Checks the stability and condition of the mounting system.

Mounting Bolt Torque (Nm)

Enter a number...

Rail Condition

- ☐ Excellent
- ☐ Good
- ☐ Fair
- ☐ Poor

Panel Attachment Method

- ☐ Clips
- ☐ Bolts
- ☐ Other

Notes on Mounting Structure Condition

Write something...

Number of Cracked/Corroded Components

Enter a number...

Evidence of Movement/Shifting?

- ☐ Yes
- ☐ No
- ☐ Unsure

Inverter Performance & Diagnostics

Verifies inverter operation and identifies potential issues.

DC Voltage (V)

Enter a number...

AC Voltage (V)

Enter a number...

Input Current (A)

Enter a number...

Output Power (kW)

Enter a number...

Error Codes Present?

☐ Yes

☐ No

Description of Error Codes (if any)

Write something...

Inverter Cooling System Functioning?

- ☐ Adequate
- ☐ Marginal
- ☐ Poor

Last Firmware Update Date

Enter date...

Safety Equipment & Labeling

Confirms the presence and condition of safety devices and clear labeling.

Emergency Shut-off Labels Present & Visible?

- ☐ Yes
- ☐ No
- ☐ N/A

Warning Labels Present (High Voltage, etc.)?

- ☐ Yes
- ☐ No
- ☐ N/A

Personal Protective Equipment (PPE) Availability?

- ☐ Yes
- ☐ No
- ☐ Partial

Quantity of Fire Extinguishers?

Enter a number...

Fire Extinguishers Last Inspection Date Verified?

- ☐ Yes
- ☐ No
- ☐ N/A

Date of Last Safety Training?

Enter date...

Notes on Safety Equipment or Labeling Issues

Write something...

Environmental Factors & Vegetation

Identifies potential environmental impacts and vegetation encroachment.

Ambient Temperature (°C)

Enter a number...

Wind Speed (m/s)

Enter a number...

Weather Conditions

☐ Clear

☐ Cloudy

☐ Rain

☐ Snow

☐ Fog

Vegetation Encroachment

☐ None

☐ Minor

☐ Moderate

☐ Severe

Description of Vegetation Concerns

Write something...

Evidence of Animal Activity

- ☐ No
- ☐ Yes - Nesting
- ☐ Yes - Tracks
- ☐ Yes - Other

Notes on Animal Activity (if applicable)

Write something...

Record Keeping & Documentation

Ensures proper record-keeping and documentation of inspections.

Inspection Date

Enter date...

Inspection Time

Enter time...

Panel Serial Number (if applicable)

Enter a number...

Inspector Name

☐ Option 1

☐ Option 2

☐ Option 3

Notes/Observations

Write something...

Supporting Documents (e.g., previous inspection reports)

 Upload File

Next Inspection Due

- ☐ 1 Month
- ☐ 3 Months
- ☐ 6 Months
- ☐ 12 Months

Inspector Signature