

CleanPV PV2 7.5m Solar Panel Cleaning Brush Standard Operating Procedure (SOP)

Product: CleanPV PV2 7.5m Solar Panel Cleaning Brush

Version: 1.2



1. Purpose

To safely assemble, operate and maintain the CleanPV PV2 Solar Panel Cleaning Brush for effective solar panel cleaning while protecting both the solar panels and equipment.

2. Safety Information

Clean during early morning, late afternoon or overcast conditions. Use clean water only, preferably RO water. Never stand on solar panels, never use soap, chemicals or high-pressure washers, and never clean hot panels during peak midday temperatures.

3. Product Components

Brush Head, Brush-to-Pole Connector, 7.5m Telescopic Pole, 20m Water Hose, Valve, and Quick Connector Set.



4. Pre-Use Inspection

Inspect brush bristles, hose fittings, pole sections, locking clamps and water hose. Do not use damaged equipment.

5. Assembly Procedure

Step 1: Remove all packaging and verify all components are present.

Step 2: Screw on the brush-to-pole connector onto the telescopic pole, do not over-tighten.

Step 3: Attach the brush head and tighten securely by hand.

Step 4: Adjust the brush angle to approximately 30°–45° and lock it. Make sure that the angle is correct so the bristles all make contact with the solar panel surface.

Step 5: Connect the pole internal water hose to the brush head.

Step 6: Connect the 20m hose to the pole hose with the supplied quick connect inline valve.

Step 7: Connect the quick-connect fittings and attach to the water source.

Step 8: Open the water supply slowly and check for leaks.

6. Pole Extension Procedure

Extend the pole gradually. Lock each clamp securely before extending the next section. Only extend as much pole as necessary.

7. Solar Panel Cleaning Procedure

Step 1: Pre-rinse panels to remove excessive loose dust and debris.

Step 2: Place the brush lightly on the panel surface.

Step 3: Use long overlapping strokes while allowing water to flow continuously.

Step 4: For stubborn dirt, soak the area and use multiple gentle passes.

Step 5: Perform a final rinse and inspect the panel surface.

8. Best Practices

Clean panels every 3–6 months, increase cleaning frequency in dusty environments, rinse before brushing, use RO water, and store equipment out of direct sunlight.

9. After Use

Turn off the water supply, disconnect hoses, drain remaining water, retract the pole, rinse the brush head and store equipment in a dry location.

10. Troubleshooting

Poor water flow: check for hose kinks, blocked fittings or low water pressure. Brush movement: tighten angle lock. Pole slipping: inspect and secure locking clamps.

11. Warranty Considerations

Use the product only as intended, do not modify components, do not use chemicals through the system, and inspect equipment regularly.

Operator Checklist

Before Cleaning:

- ☐ Brush assembled correctly
- ☐ Water connected
- ☐ Pole locks secure
- ☐ Water flowing properly
- ☐ Solar panels cool to touch

After Cleaning:

- ☐ Water disconnected
- ☐ Hose drained
- ☐ Brush cleaned
- ☐ Pole retracted
- ☐ Equipment stored correctly