PowerFilm®
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50W SemiFlex Solar Panel with Built-In Charge Controller and Suction Cups

Handling Guidelines

SCAN THE QR CODE BELOW TO WATCH THE STEP-BY-STEP VIDEO

Proper handling ensures the panel's long-term durability and performance.

✅ Do:

- **Use both hands.** Always support the panel with one hand on each side to avoid stress on the material.

- **Minimize flexing.** The panel is relatively rigid but can flex if caught in the wind or held improperly.

- **Carry it carefully.** When moving it between vehicles or around your facility, protect it from strong gusts of wind that could cause it to bend.

🚫 Don't:

- **Avoid grabbing corners with cells.** Lifting by a corner—especially one with a solar cell—can cause cracking.

- **Don't over-bend.** Cracking a cell won't kill performance entirely, but will reduce power output.

Installation Instructions

SCAN THE QR CODE BELOW TO WATCH THE STEP-BY-STEP VIDEO

Follow these steps to securely mount the panel on a window using its built-in suction cups.

1. Clean the Surface

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- Use **isopropyl alcohol**, **Windex**, or a similar cleaner to wipe down the window.

- Ensure the area is dust and dirt-free to ensure strong suction.
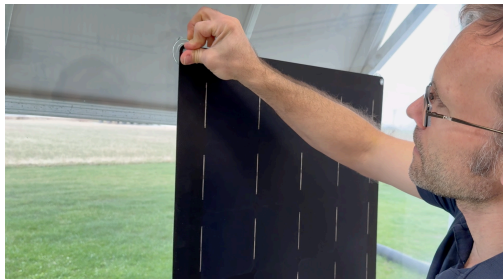
2. Wet the Suction Cups

- Lightly dampen all four suction cups with a wet rag.

- Moist suction cups create a stronger and longer-lasting hold.

3. Position the Panel

- Hold the panel with **two hands**.

- Determine the correct orientation based on where the **cable needs to run** to reach the battery.

4. Attach the Panel

- Press firmly in the **center of each suction cup** to secure it to the window.

- Confirm all cups are sealed and the panel is flat against the surface.

5. Connect to the Battery

- Use the attached cable and **alligator clips** to connect to your battery.

  - **Black clip** = Negative (–)

  - **Red clip** = Positive (+)

- The system includes a **5-amp automotive fuse**. If there are connection issues, check and replace the fuse if needed.

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Uninstallation Tips

When it's time to remove the panel, follow these steps carefully to avoid damage.

✅ Do:

- **Release suction cups one by one.** Don't yank or pull on the panel itself.

- **Use tabs or fingernails.**

    - If a suction cup has a **visible tab**, lift it gently.

    - If **no tab is visible**, slip a fingernail under the edge to release suction.

🚫 Don't:

- **Never pull the panel off by force.** This can crack a cell and reduce the panel's output.