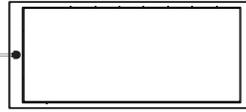


Panel Voltage Check



Measure the solar panel's voltage to confirm it's working correctly and catch any issues before or after installation.

ITEM(S) REQUIRED



MerlinSolar™ Panel(s)

TOOL(S) REQUIRED



Multimeter

1 Testing Conditions: Bring the panel(s) and multimeter and move to a sunny area. Conditions where the panel(s) can be in direct sunlight will be the most ideal.

2 Configure Multimeter: Turn the dial to DC voltage (V \equiv) and select a range higher than the panel's expected output (e.g., 20V for a 12V panel).



Use the V with a solid and dashed line (V \equiv) to measure DC Voltage

3 Connect Probes: Touch the multimeter's **positive probe to the panel's positive** terminal and the **negative probe to the negative** terminal.



RED (+) meter cable into PV+ cable MC4 connector



Insert BLACK (-) meter cable into PV- cable MC4 connector

4 Measure Voltage: Read the voltage displayed on the multimeter. It should be close to the panel's rated open-circuit voltage (Voc), which is listed on its label.



5 Interpret Results:

- **If the voltage is close to the Voc rating**, the panel is functioning properly.
- **If the voltage is significantly lower**, the panel may be damaged or receiving insufficient sunlight.
- **If there is no reading**, check the connections or test under better lighting conditions.