

SBM Solar Panel Trouble Shooting Chart

WARNING

Failure to use caution while performing the following procedures may result in electrical shock and injury.

Standard Testing Condition: Place the solar panel on the ground in a flat position during a clear day with full sunlight and no shading between 1030 and 1400. The solar panel must connect with a SOC less than 80%. If the power meter indicates the wattage is less than 25% of its listed output (i.e. 90W or 180W), the panel is no longer working properly.

Inspect entire solar panel (front and back) for any damage or broken parts. Disconnect the NATO cable from the solar panel, connect the power meter in between the solar panel and NATO cable. Connect the NATO cable to the battery to be recharged. Place the solar panel on the ground in a flat position in direct sunlight, ensure the solar panel surface is not dirty, covered or shaded. Does the power meter display a number of watts?

↓ YES

Power meter displays lower than 22 watts (from a 90-Watt solar panel) or 45 watts (from a 180-watt solar panel).

↓ YES

Is the connected battery at or above 80% state of charge (SOC)?

↓ YES

The battery's SOC is sufficient, and the power meter will display a low number of watts. If attempting to verify the solar panel output, connect the NATO plug to a battery below 80% SOC.

↓ NO

If the power meter still displays low watt, repeat the test midday (between 1030-1430) under a clear non-cloudy sky. If the power meter still displays a low number of watts, contact SBM for warranty instructions.

↓ NO

Check the NATO cable for any physical damage, replace with another cable and repeat the test as shown above. If the power meter still does not display a number of watts, contact SBM for warranty instructions.