



SEAWARD
ELECTRICAL SAFETY TESTING
& MEASURING.

What happens if the irradiance changes during an I-V curve measurement?

Ideally, if the real life irradiance is constant, the I-V curve will be a straight line. In reality, however, there are many factors that can affect the I-V curve. One of the most common is a change in irradiance during the measurement. This can happen for a number of reasons, such as a change in the sun's position or a change in the weather. If the irradiance changes during the measurement, the I-V curve will be distorted. This means that the measured current will be lower than it should be, and the measured voltage will be higher than it should be. This can lead to an incorrect I-V curve, which can be used to calculate the power output of the solar panel. Therefore, it is important to ensure that the irradiance is constant during the measurement. This can be done by using a solar simulator or by measuring the solar panel in a controlled environment.

If you require more help, please contact us at <https://www.seaward.com/gb/enquiry/>.