



SEAWARD
ELECTRICAL SAFETY TESTING
& MEASURING.

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

Ideally, if the real life irradiance is stable, 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 power output of the PV module will be lower than it should be. This is because the power output is directly proportional to the irradiance. If the irradiance is lower, the power output will be lower. This can lead to a lower overall efficiency of the PV module. Therefore, it is important to ensure that the irradiance is stable during the I-V curve measurement. This can be done by using a solar simulator or by measuring the I-V curve in a controlled environment.

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