



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 influence 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 increases during the measurement, the I-V curve will shift upwards, resulting in a higher current for the same voltage. Conversely, if the irradiance decreases, the I-V curve will shift downwards, resulting in a lower current for the same voltage. This can lead to significant errors in the measurement of the solar panel's performance. To avoid this, it is important to ensure that the irradiance is stable during the measurement. This can be done by using a solar simulator or by measuring the solar panel's performance at a fixed time of day when the irradiance is relatively constant.

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