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

Ideally, I-V curve measurements should be made when the sky is clear and with little wind. Changes in irradiance will produce variations in PV module temperature that can affect the accuracy of I-V curve measurements. If the change in irradiance alters the shape of the I-V curve, the measurement should be repeated.

However, the reality is that time and other constraints limit the periods in which it is possible to perform a test. I-V curve measurements should be made under the most possible stable conditions and variations in irradiance and module temperature should be recorded immediately before measurements are made, the PV module temperature must have stabilised. Changes in irradiance during an I-V curve measurement can influence the shape of the I-V curve.

If you require more help, please contact us at
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