What is STC and why is it significant?

The voltage and current performance of a PV module depends directly on the level, the spectral content of the irradiance and the PV module temperature. When PV modules are produced, manufacturers check the performance and determine the rating plate values, by carrying out an I-V curve measurement.

All PV modules have a rating plate which details the module's performance, including values for open circuit voltage (Voc), short circuit current (Isc), at the maximum power point (Vmpp and Impp) and the maximum power (Pmax). Manufacturers measure the rating plate values under standard test conditions (STC) with an irradiance of 1000W/m2, a module temperature of 25°C and using an irradiance source equivalent to an air mass AM=1.5.

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

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