

SolarCert Elements v2

Comprehensive PV installation, operation and maintenance software for analysis, reporting and certification

SolarCert Elements v2 is a dedicated software program which enables PV system installers to quickly and easily analyze the performance, efficiency and safety of PV systems and modules using measurements taken from the Seaward range of PV testers.

The software program is easy-to-use and provides a simple checklist of items to enable PV system information and reports including photographs, certificates, system specifications and performance information to be compiled in accordance with the IEC 62446 standard.

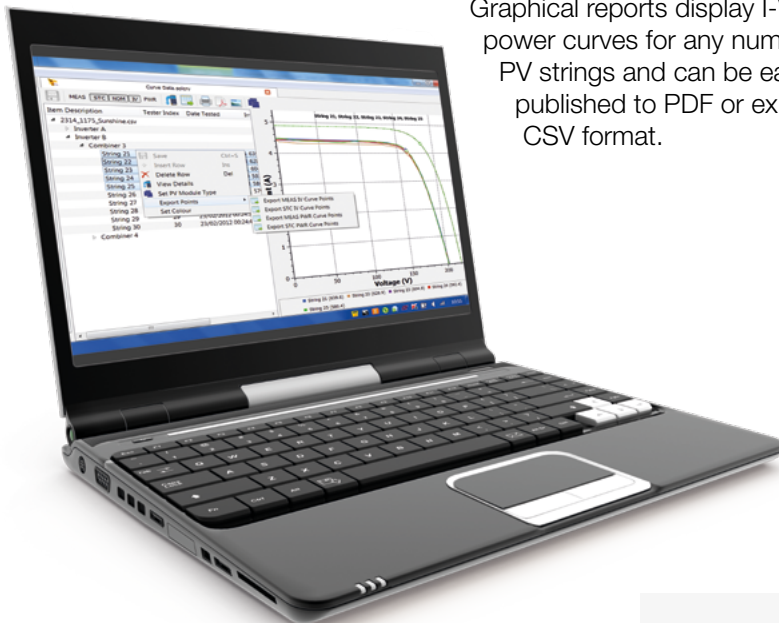
Electrical measurement, irradiance and temperature data is easily imported via USB download from a Seaward PV tester. SolarCert Elements v2 uses the data to effortlessly produce electrical test certification and system diagrams, and includes I-V curve analysis and reporting features to allow detailed performance analysis of PV systems and modules.

I-V curves and power curves can be displayed, showing measurements for multiple strings on a color graph. A user-defined selection of curves can be viewed simultaneously for simple comparison of string performance.

Data can be converted to STC using irradiance and temperature data from the PV tester download. Once converted to STC, the data can be displayed alongside the manufacturer's data, allowing a direct comparison of actual vs predicted performance. Unique data points can be displayed on the graphs, so that measurements can be read directly from I-V and power curves for numerical or visual comparisons to be made.

Key Features

- Intuitive and easy to use
- Display multiple I-V curves on one graph for easy performance comparison
- Display I-V and power curves
- Built-in database containing manufacturer's data for 14,000 PV modules.
- Convert measured data to STC for direct comparison with manufacturer's data
- Generate PDF reports with I-V curve graphs
- Generate PV array test reports, inspection reports and verification certificates
- Export CSV data
- Create installation schematic diagrams



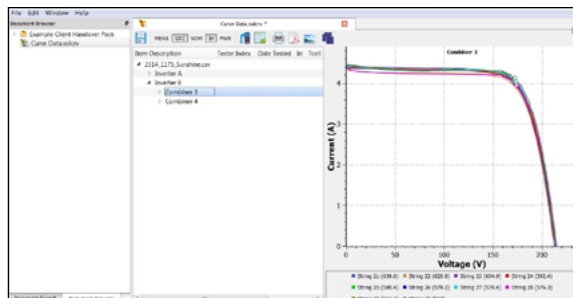
Graphical reports display I-V and power curves for any number of PV strings and can be easily published to PDF or exported in CSV format.

www.seawardsolar.com/solarcertelements

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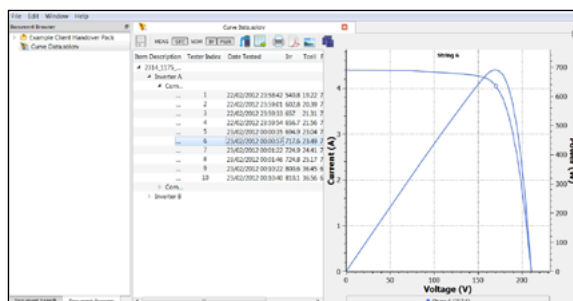
or email sales@seaward.co.uk

For USA, Canada and Central America Tel: +1 (813) 886 - 2775



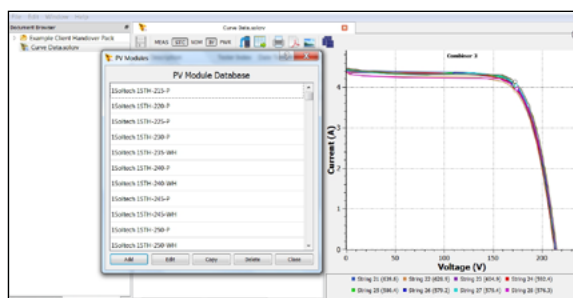
Display multiple I-V curves on one graph for easy performance comparison

Quick and easy visual comparison of I-V curves captured from identical strings in a PV system, allowing any under-performing strings to be easily identified.



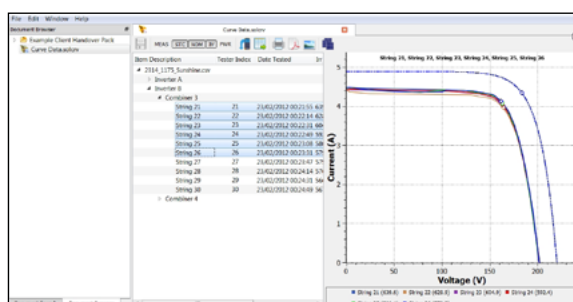
Display I-V and power curves

Identify performance issues by easily comparing I-V curves and power curves on-screen.



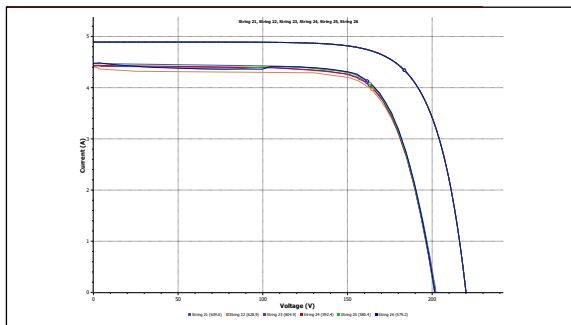
Built-in database containing manufacturer's data for 14,000 PV modules

A comprehensive built-in database can be used to make direct comparison between field measurements and the performance predicted by the manufacturer's published data.



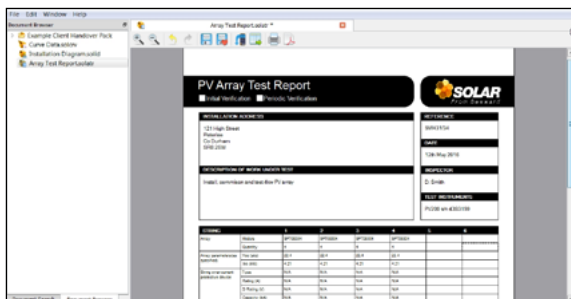
Convert measured data to STC for direct comparison with manufacturer's data

Using irradiance and temperature data captured by the Solar Survey 200R and stored in the PV tester memory, measured data can be converted to STC data for direct comparison with the manufacturer's published data providing an assessment of actual performance against expected performance.



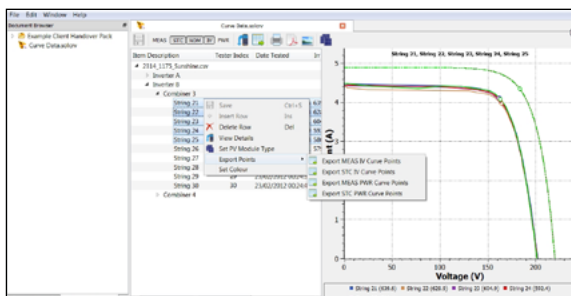
Generate PDF reports with I-V curve graphs

PDF reports showing I-V curves and power curves can be produced at the press of a button, so that data can be easily shared by email or turned into professional reports for clients.



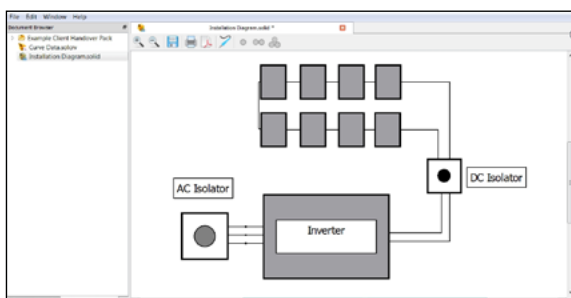
Generate PV array test reports, inspection reports and verification certificates

Quickly and easily produce electrical test certification and system diagrams for inclusion in client handover packs as required by certification schemes and required by the IEC 62446 standard.



Export CSV data

Data from SolarCert Elements can be exported in CSV format allowing easy transfer to other software applications if required.



Create installation schematic diagrams

Easily create clear and concise representations of the PV circuit design with the schematic capture feature. Drag and drop components to create bespoke diagrams for each installation.

SolarCert Elements v2 is ideal for use with:



◀ PV150 Solar PV tester

A complete solution to the testing and measurement requirements of photovoltaic installations.

Part number 388A913
388A916 (for USA)

PV200/210 Solar PV tester and I-V curve tracer ▶

The PV200 provides a highly efficient and effective test and diagnostic solution for PV systems.

Part number 389A910 (PV200)
389A912 (PV210 for USA)



◀ Solar Survey 200R irradiance meter

The Solar Survey 200R irradiance meter is the perfect tool for solar to conduct comprehensive solar site surveys.

Part number 396A914 (433MHz)
396A916 (915MHz for USA)

Mounting bracket for Solar Survey 100/200R ▶

Securely mount the Solar Survey 100/200R to a PV unit for easy and accurate measurements.

Part number 396A979



Technical Specification

SolarCert Elements is supplied as an online download, a licence card will be supplied to enable activation.

A free trial download of the software is available free of charge from www.seawardsolar.com/solarcertelements

SolarCert Elements requires a PC with the following specification:

Processor speed 1GHz or higher
Microsoft Windows 7/Windows 8/ Windows 10
32 & 64 bit operating systems
1GB RAM or higher
50MB available hard disk space
Color Monitor with 32 bit color or greater video card

SolarCert licence card – Part number 389A950