



High-Tech Distribution and Consulting

merconics is a competent and experienced partner for the distribution of advanced capital equipment and process materials for the European semiconductor and photovoltaic industry and related markets. The systems of our suppliers can be used in a variety of segments of the above-mentioned markets, such as advanced chip or solar components manufacturing and respective R&D activities. We focus our efforts on providing solutions that enable our customers to meet today's challenging technology and manufacturing requirements.

>focus< today on

Atonometrics

Atonometrics an Austin, Texas based company develops and manufactures equipment for Photovoltaic module reliability testing in high-volume manufacturing environments.

UV Exposure Chamber

The Atonometrics UV Exposure System provides ultraviolet (UV) light exposure for accelerated life testing of photovoltaic (PV) modules.

The system can be used for UV pre-conditioning required by IEC 61215 and 61646 for PV module testing. A unique design with two large vertical test planes allows for the simultaneous exposure of 2 to 6 PV modules of typical sizes.



Fig. 1: Atonometrics UV exposure chamber module loading

Both the UV Exposure Chamber as well as the LS Light Soaking system provide unique value by combining high throughput, small equipment footprint, and low cost of ownership. This makes both systems ideal for reliability testing in PV module manufacturing environments.

Continuous Solar Simulator LS series

The Atonometrics Continuous Solar Simulator and Light Soaking Chamber provides simulated sunlight exposure for steady-state testing of photovoltaic (PV) modules. The system can be used for various tests requiring medium or long-term exposure, including photo-induced degradation, power output stabilization, hot-spot testing, and accelerated performance evaluation.



Fig. 2: Atonometrics Solar Simulator LS series

The system can be used to meet the requirements of IEC 61215 for crystalline silicon and IEC 61646 for thin-film PV modules. A unique design with two large test planes allows for the simultaneous exposure of 2 to 6 PV modules of typical sizes.

The system can optionally include an integrated Atonometrics I-V measurement system, allowing in-situ characterization of PV modules during testing. The system can also include integrated sensors for light intensity and PV module temperature measurements.

Reference site Fraunhofer ISE, Freiburg

Atonometrics, Inc., a global company providing test & measurement solutions to the solar photovoltaic industry, announced on July 1, 2011 that it has installed and qualified a Continuous Solar Simulator at Fraunhofer ISE in Freiburg, Germany. The system includes an integrated I-V measurement system and will be used for Light Soak tests of full-size PV modules.

EU PVSEC 2011

Atonometrics will exhibit from Sept 5-8, 2011 at the 26th European Photovoltaic Solar Energy Exhibition and Conference at the International Fair Hamburg, Germany.



Please visit us in Hall B2U at our stand A8.

Please contact merconics to learn more about the unique features of the Atonometrics product lines.

Partners deliver success

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