

Solarion achieves milestone for flexible CIGS encapsulation

Solarion AG from Leipzig, Germany, announced today the successful achievement of a crucial milestone within its internal qualification of a transparent and flexible encapsulation solution for its copper-indium-gallium-diselenide (CIGS) thin-film solar cells on plastic.

With this flexible encapsulation system Solarion passed the damp-heat test (1,000 hours at 85 % relative humidity and 85 °C temperature) according to the IEC 61646 standard for performance and durability of thin-film solar modules.

“A flexible packaging of large area photovoltaic devices with efficiencies of about 10 % represents a real bright spot for new photovoltaic applications. We are seeing a strong demand for highly efficient, flexible and lightweight solar modules,” said Karsten Otte, CEO at Solarion.

“The availability of such photovoltaic products enables completely new product solutions for example in the field of solar roofing materials for buildings or for implementing these products into automotive lightweight constructions which will become more and more important with completely electric powered vehicles.” adds Otte.

In September Volkswagen AG presented the concept car E-Up!. The roof of the car was designed as a curved solar module incorporating solar technology developed by Solarion AG.

About Solarion

Solarion is developing, producing and offering high-efficient and low-cost thin-film solar modules using Copper-Indium-Gallium-Diselenide (CIGS).

Solarion’s technology is based on a proprietary ion-beam assisted deposition of the CIGS absorber in a roll-to-roll process. The advantages of this technology are its low deposition temperature, improved solar cell efficiency, higher process speed as well as the lower energy and material costs. The utilization of a flexible carrier enables new fields of photovoltaic applications.

Solarion was founded in 2000 and has established the first European pilot-line for the manufacturing of flexible and highly efficient CIGS thin-film cells on a flexible polymer in 2002. Mass-manufacturing of CIGS based modules is planned for the year 2010.

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