

<http://www.nacleanenergy.com/articles/26277/concept-by-us-partners-with-solartech-universal-for-next-generation-solar-panels>

Concept by US partners with SolarTech Universal for Next-Generation Solar Panels

Concept by US, manufacturer of the POWERSTATION 247 product family has announced a new partnership with SolarTech Universal, a US. company using Meyer Burger's, Swiss-engineered SmartWire Connection Technology (SWCT) at its production facility in Riviera Beach, Florida.

The next generation of made in the U.S.A. solar panels use Swiss engineering

Meyer Burger, based in Switzerland, is a leading global technology company specializing in innovative systems and processes based in semiconductor technologies, employing nearly 1,700 people across three continents.

SmartWire Technology for superior performance

SolarTech Universal is using SmartWire Technology (SWT), a revolutionary cell connection process for solar module manufacturing. Standard bus bars are replaced by 18 micro-wires that gather energy more efficiently and strengthen the cells. SWT's superior performance results in advanced module efficiency while negative effects are significantly reduced.

Commenting on this new solar manufacturing technology, Meyer Burger said: "Our focus is on photovoltaics, while our competencies and technologies also cover important areas of the semiconductor and the optoelectronic industries, as well as other selected high-end markets based on semiconductor materials."

Automated Cell Connection

Their Quantum Series, PERC solar cells are linked robotically with the FWA to form a cell string, eradicating the bus bar to a cell soldering process. The FWA interconnects the front side of a cell to the back side of the next cell, ensuring the proper connection from cell to cell. The superior efficiency of SWT is driven by 18 micro-wires that form a dense grid of up to 2,660 contact points on the solar cell. This structure allows electrons to travel a shorter distance in order to be collected, thus reducing resistive losses

Advanced panels combined with advanced storage and 24/7 energy

In the words of Sara Kissing, COO of Concept by US: "We are very happy to announce our strategic partnership with SolarTech Universal, the only solar panel manufacturer in Florida. As we have similar demands for the highest quality standards and usability, we consider this partnership a perfect match. Combining high end solar panels with our high end energy storage and usage system – now offered at lower costs – provides optimal solar energy usage and storage options to our customers. Harvested energy can not only be stored in the POWERSTATION 247 battery for back-up, but also be fed where needed in the home or business. Day and night, 24/7."

The POWERSTATION 247 product family (<http://www.powerstation247.com>), with new, reduced pricing is a complete, and fully integrated scalable solar energy storage system with built-in battery storage. The system comes in 10 kW, or 15 kW; all have the same battery storage capacity of 17.28 kWh. Its free standing cabinet is easy to install and easy to use. The system integrates up to 3 hybrid inverters, solar MPP-trackers, charge controller and lithium-ion batteries, all necessary field wiring terminals and disconnect switches. It is completely "plug and play", can be installed on and off grid and is UL certified.

Concept by US | <http://www.concept-us.com>

SolarTech Universal | <http://www.solartechuniversal.com>