



SMA Solar Technology AG Press Release

With Integrated Storage: SMA Launches the Sunny Boy Smart Energy

Niestetal, April 25, 2014—SMA Solar Technology AG (SMA) launches the new Sunny Boy Smart Energy in Germany. The first wall-mountable, mass-produced PV inverter with an integrated lithium-ion battery is now available for delivery. This new product was awarded the Product Innovation Prize at Intersolar 2013 and is currently the simplest storage solution available for typical residential PV applications. Furthermore, it can also be used as part of the SMA Integrated Storage System Solution.

Using solar electricity even longer

With the Sunny Boy Smart Energy, owner-operators can now use solar power even after sunset. The integrated battery has a capacity of approximately 2 kWh and this enables generated PV electricity that is not needed in the home to be stored for later use. This increases self-consumption, which makes a positive contribution to the environment and great sense financially, and therefore creates independence from rising electricity prices. "When combined with the Sunny Home Manager, self-sufficiency quotas of 50% are common on an annual average basis," said Product Manager Thomas Thierschmidt.

Optimised battery capacity

The VDE-certified lithium-ion battery integrated in the Sunny Boy Smart Energy has an effective, application-oriented capacity of approximately 2 kWh. This value is crucial because it enables ideal economical operation of the battery. Because the increase in self-consumption levels off with increasing storage capacity, the battery utilisation factor decreases. In addition, the battery allows for virtually all generated PV energy to be used, even with active power limitation. "Our long-standing expertise in storage systems shows us time and again that the small storage battery is not only extremely viable but also affordable," said Thierschmidt.

A core component in the SMA Integrated Storage System

The Sunny Boy Smart Energy, which is available in power ranges of 3.6 kW and 5 kW, is one of the core components of the SMA Integrated Storage System alongside the Sunny Home Manager. As the first wall-mountable, mass-produced PV inverter with an integrated lithium-ion battery, this new product was awarded the Product Innovation Prize at Intersolar 2013 and is currently the simplest storage solution available for typical residential PV applications.



For greater independence, for the success of the energy transition

The Sunny Boy Smart Energy fosters greater independence in the scope of the intelligent energy management of SMA Smart Home. It is also perfectly designed to help fuel the energy transition, due to its storage function. "The future Smart Grid for the decentralised and renewable electricity supply must rely on electrical storage systems. To be able to establish a system-appropriate storage capacity within the utility grid capacity, an easy-to-install and affordable product is needed. In this respect, the Sunny Boy Smart Energy supports the energy transition unlike any other device," said Thierschmidt.

About SMA

The SMA Group generated sales of €932.5 million in 2013 and is the global market leader for solar inverters, a key component of all PV plants. As an energy management group, SMA offers innovative key technologies for future power supply structures. It is headquartered in Niestetal, near Kassel, Germany, and is represented in 21 countries. The Group employs more than 5,000 people worldwide. SMA's broad product portfolio includes a compatible inverter for every type of module on the market and for all plant sizes. The product range includes both inverters for grid-connected photovoltaic plants as well as off-grid and hybrid system technology. The product portfolio is supplemented by comprehensive services and operational management of utility-scale pv-plants. Since 2008, the Group's parent company, SMA Solar Technology AG, has been listed on the Prime Standard of the Frankfurt Stock Exchange (S92) and also in the TecDAX index.

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