



SMA Solar Technology AG – Press Release

Intersolar Europe 2015: SMA Presents Innovations for Each Area of Application in Photovoltaics

Niestetal/Munich, April 22, 2015—SMA Solar Technology AG (SMA) will be presenting innovations for all areas of application in photovoltaics at this year’s Intersolar Europe in Munich from June 10 to June 12, 2015. The key focus will be on comprehensive system solutions for greater independence in the use of energy. In addition to the completely newly developed Sunny Boy 1.5/2.5 for high self-consumption with small PV systems, SMA will also show new developments in domestic energy management with SMA Smart Home. For commercial businesses, the new system solutions based on the Sunny Tripower and Sunny Island offer greater independence even in the event of grid failure. For large-scale PV power plants, SMA will be demonstrating a new type of container solution at Intersolar Europe for the first time. This combines a 2.5 MW central inverter, a medium-voltage transformer and medium-voltage switchgear as a turnkey solution in a standard container.

“With our technological innovations, we are ensuring that more and more households and commercial businesses can already use solar energy to become less dependent on rising electricity and operating costs and that large-scale PV power plants can compete with conventional energy carriers in their own regions even without subsidies. Our comprehensive system solutions, which enable ever more components to be integrated in the system, are the key to the sustainable, secure and decentralized energy supply of the future. Visitors to our booth at Intersolar will be able to see for themselves,” explained Jürgen Reinert, Board Member for Technology.

High Self-Consumption With Small PV Systems: The Sunny Boy 1.5/2.5

With the Sunny Boy 1.5/2.5, SMA has brought to the market a completely newly developed inverter that follows the current trend toward small PV systems in terms of technology. Among other features, it supports a high rate of self-consumption, has a wide range of applications and is very easy to integrate into the home network. In addition, its innovative design, broad input voltage range of 80 to 600 V and new communication concept offer numerous advantages during installation and commissioning. Thanks to direct communication with the SMA Energy Meter, it is possible to set the limitation to 70%, which is required in Germany, or 0%, if desired.

There are also a number of new options for intelligent energy management with SMA Smart Home. Aside from complete energy monitoring using compatible SMA radio-controlled sockets and measurement modules that are designed for international use as well as individual monitoring of all key electrical devices, the home automation system



from Plugwise, the Dutch home automation specialist and new SMA cooperation partner, also monitors heating, indoor air quality, indoor temperature and lighting.

Cutting-edge solutions for commercial PV systems

The new SMA system solution featuring the Sunny Tripower 60 inverter guarantees high performance of commercial PV systems and maximum planning flexibility. Installers benefit from easy commissioning and low maintenance costs. SMA is introducing a new addition to the successful Sunny Tripower (STP) family with the STP 20000TL/25000TL. It offers the new grid management functions "Integrated Plant Control" and "Q on Demand 24/7." The Sunny Portal Professional Package for the professional monitoring of commercial PV farms improves operating processes and cuts costs. As a central communication unit for system monitoring, recording data and controlling smaller-scale commercial PV systems comprising up to 25 inverters, in addition to its existing standard solution for large-scale plants, SMA is now offering the new SMA Cluster Controller.

Sunny Island and Multicluster Technology now also available for high-performance commercial self-consumption applications up to 100 kWp

For the higher-performance battery inverter Sunny Island 6.0H/8.0H, SMA has developed new SMA Multicluster technology comprising the Multicluster Box 12 and the NA Box 12, which is now also suitable for operating in the utility grid. In Germany, it meets the applicable connection conditions for low-voltage grids (VDE-AR-N 4105) and helps commercial applications such as supermarkets, farms and other commercial businesses to increase self-consumption using storage systems. These systems can also be connected to a diesel generator to bypass grid failure due to a discharged battery. On an international scale, the Multicluster Box 12 can be used to set up off-grid systems, and when combined with the Grid Connect Box 12, it can form self-consumption and battery-backup systems with an output of up to 138 kW.

Unique power density in a standard shipping container

In the large-scale PV power plant segment, SMA succeeded for the first time in integrating a complete turnkey system solution, comprising a 2.5 MW central inverter, a medium-voltage transformer and medium-voltage switchgear, into a twenty-foot shipping container. The SMA Medium Voltage Power Station 2200SC/2500SC for direct voltages of 1000/1500 V can be used in large-scale and extremely large-scale PV power plants worldwide, is suitable for outdoor installation in all ambient conditions, and thanks to its power density and compact design, which are unique on the market, it helps to reduce transportation, installation and operating costs. In tandem with this, SMA is also unveiling a new String-Monitor for the reliable monitoring and control of PV power plants. The SMA Sunny String-Monitor, which delivers performance and fault analysis within seconds, is adapted flexibly to each PV system design thanks to external fuses.



Customized solutions for PV diesel hybrid systems

To integrate solar power even more efficiently into diesel-powered grids, SMA has further enhanced its SMA Fuel Save Controller (FSC). The 2014 Intersolar Award winner is now available for different performance requirements, including the simple and affordable complete solution FSC M for a solar grid feed-in of up to 1 MW of PV power in PV diesel hybrid systems, the FSC L solution for solar grid feed-in of up to 5 MW and optional storage integration as well as the customized solution for systems requiring up to 50 MW of solar power. With these solutions, SMA is providing industrial applications without or with only limited access to the utility grid with individual custom-made solutions for a reliable, resource-friendly and efficient energy supply.

Comprehensible service with SMA operations & maintenance

With its Operations & Maintenance service offering, SMA provides a global full-package service and takes on the complete technical operational management of large-scale PV power plants. This includes continuous remote system monitoring, but additional services such as regular maintenance, thermography scans as well as vegetation and dirt control are also included in the scope of services. With this option, SMA customers benefit from optimal system operation, the greatest possible yields and maximum reliability. Overall, SMA already performs operations and maintenance for PV power plants with a total capacity of over 1 GW worldwide.

Those attending Intersolar can learn more about SMA's many innovations **at the SMA booth B2.210**.

About SMA

The SMA Group with sales of more than €800 million in 2014 is the global market leader for solar inverters, a key component of all PV plants and 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 PV system sizes. The repeatedly awarded product range includes system technologies for grid-connected photovoltaic systems as well as off-grid and hybrid systems. The technology is protected by more than 550 patents. The range of services is supplemented by comprehensive services and operational management of large-scale PV power 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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