

Shaping the Future: SMA enhances storage solutions portfolio with powerful battery inverter Sunny Central Storage UP-S

Niestetal, March 20, 2025 – Staying competitive as an operator of large-scale storage systems in the rapidly evolving energy market: SMA Solar Technology AG (SMA) expands its large-scale storage solutions portfolio with the new [Sunny Central Storage UP-S battery inverter](#). Featuring silicon carbide (SiC) MOSFET* technology, it offers superior power conversion efficiency and grid-forming capabilities for large-scale energy storage projects. Following a successful launch in Australia, this innovative SMA solution is now available across Europe and the US.

"Our storage solutions enhance system performance and support grid stabilization, playing a key role in building a more resilient and sustainable energy future," said Joshua Birmingham, Head of Sales & Markets - Large Scale at SMA. "Since its launch in Australia, Sunny Central Storage 4600 UP-S has generated significant interest from our customers. We're now excited to introduce the battery inverter in Europe and the US. By combining advanced grid-forming capabilities with high efficiency, our solutions help utilities stay competitive and accelerate the energy transition."

Future-proof SiC MOSFET technology delivers efficient power conversion

At the core of the [Sunny Central Storage UP-S](#) is its advanced SiC MOSFET semiconductor stack, which delivers superior power conversion efficiency, drastically reduced thermal loads, and the ability to operate at full capacity even during grid-forming operations. These innovations translate to higher power output and increased profitability for developers and power plant operators, while also minimizing infrastructure and maintenance costs.

Key features of the Sunny Central Storage UP-S include:

- Up to 4,600 kVA continuously with short-term overload capability for dynamic grid.
- Over 99% efficiency thanks to innovative SiC MOSFET technology.
- Fewer inverters needed, reducing capital expenditure, installation, and maintenance costs.
- Optimized thermal management in any environment with the OptiCool™ air cooling system.
- Inverter-based inertia & improved short-circuit ratios to ensure stable power delivery during critical disturbances.
- Reduced harmonic values suitable for the most difficult grid conditions.
- Enables rapid, decentralized grid restoration, safeguarding the energy supply during outages.

[*Silicon Carbide Metal-oxide-Semiconductor Field-effect Transistor]



About SMA

As a leading global specialist in photovoltaic and storage system technology, the SMA Group is setting the standards today for the decentralized and renewable energy supply of tomorrow. SMA's portfolio contains a wide range of efficient PV and battery inverters, holistic system solutions for PV and battery-storage systems of all power classes, intelligent energy management systems and charging solutions for electric vehicles and power-to-gas applications. Digital energy services as well as further comprehensive services round off SMA's range. SMA solar inverters installed worldwide in the last 20 years, with a total output of around 132 GW, help avoid over 70 million tons of CO2 emissions annually. SMA's multi-award-winning technology is protected by more than 1,600 patents and utility models. 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 is listed in the SDAX index.

SMA Solar Technology AG

Sonnenallee 1
34266 Niestetal
Germany

Press Contact:

Dagmar Buth-Parvaresh
Tel. +49 561 9522-421414
Presse@SMA.de

Disclaimer:

This press release serves only as information and does not constitute an offer or invitation to subscribe for, acquire, hold or sell any securities of SMA Solar Technology AG (the "Company") or any present or future subsidiary of the Company (together with the Company, the "SMA Group") nor should it form the basis of, or be relied upon in connection with, any contract to purchase or subscribe for any securities in the Company or any member of the SMA Group or commitment whatsoever. Securities may not be offered or sold in the United States of America absent registration or an exemption from registration under the U.S. Securities Act of 1933, as amended.

This press release can contain future-oriented statements. Future-oriented statements are statements which do not describe facts of the past. They also include statements about our assumptions and expectations. These statements are based on plans, estimations and forecasts which the Managing Board of SMA Solar Technology AG (SMA or company) has available at this time. Future-oriented statements are therefore only valid on the day on which they are



made. Future-oriented statements by nature contain risks and elements of uncertainty. Various known and unknown risks, uncertainties and other factors can lead to considerable differences between the actual results, the financial position, the development or the performance of the corporation and the estimates given here. These factors include those which SMA has discussed in published reports. These reports are available on the SMA website at www.SMA.de. The company accepts no obligation whatsoever to update these future-oriented statements or to adjust them to future events or developments.