



# Tesvolt battery for its sunny island inverters

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Wittenberg/Germany, May 17, 2016 – The German wholesaler SegenSolar has joined forces with the manufacturer Tesvolt for commercial storage systems of 30 kWh and above. SegenSolar, an affiliate of the UK's largest photovoltaic wholesaler, Segen Ltd, is now supplying Tesvolt's lithium energy storage systems via its online portal and from several distribution branches around the world. SegenSolar additionally offers support to installers during the planning stages.

Prismatic battery cells Tesvolt has developed storage systems which use prismatic battery cells. The cells' special design and chemical composition makes for the high charging speeds achieved by Tesvolt storage systems. The intelligent control system ensures that each individual cell is charged and discharged at the optimal rate for a particularly long service life. Tesvolt storage systems reach up to 8,000 full charge cycles at 70% depth of discharge (DoD) and come with a performance warranty of 10 years.

Worldwide distribution "The German company SegenSolar has strong backing from its parent company, Segen Ltd, and the various Segen branches around the world make it possible to deliver within a very short time frame. SegenSolar is a fantastic distribution partner for our storage systems, which are enjoying rising demand – also internationally," says Ronny Schrottke, Senior Key Account Manager Europe at Tesvolt.

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Inverter technical data: Rated effective power: 75/150/225/300 kW (for 1/2/ 3 or 4 Independent Power Units (IPU)) Rated AC Current: 125/250/375/500 A (1/ 2/ 3 or 4 IPUs) Rated DC Power: 140/280/420/560 A (1/ 2/ 3 or 4 IPUs) Operating voltage AC: 400 VDC voltage range: 680 a 1200 V DC Max. efficiency: 97.8 %

Battery technical data: Energy for each TS-I HV 80 battery system (16 battery modules): 76 kWh C-rate: 1C Cycles at 100 % DoD | 70 % EoL | 23 °C +/- 5 °C 1 C/ 1 C: 6000 Cycles at 100 % DoD | 70 % EoL | 23 °C



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+/-5 °C 0,5 C/0,5 C: 8000Max. efficiency: 98 % Triphase

o TESVOLT Lithium Battery Optimised for use with the SMA Sunny Islando Battery module with Active Battery Optimiser (ABO) capacity is selectable using 4.8 kWh battery modules (100 DOD)o Active Power Unit (APU) 48 Volto Three different rack sizes house up to 5,8 or 10 battery moduleso Can be flexibly expanded in 4.8 kWh incrementso Flexible configuration and expansion possible, even years down the roado Built to last 30 years or 8,000 full cycleso 1C charging speedo Utmost cell technology safety

The TS 48 V lithium battery storage system offers outstanding flexibility and can be optimally adjusted to suit any application. Its cutting-edge prismatic lithium battery cells from Samsung SDI and innovative technology like the Active Battery Optimizer ensure outstanding efficiency and performance.

The system is designed to last 8,000 cycles or a lifespan of 30 years, guaranteeing excellent cost efficiency. Its modular construction makes exchanging individual battery modules a breeze, and the capacity can be expanded even years later.

With its continuous power of 1C, the TS 48 V storage system can charge and discharge in next to no time, making it ideal for professional use in commercial applications, agriculture and industry.

SMA Sunny Island 6.0H / 8.0H &#8211; Battery InverterNominal Capacity: 4.6 kVA / 6 kVADC-voltage range: 41 V - 62 VAC-voltage: 400 V, 50 Hz ; 40 Hz to 70 HzMax. efficiency: 95.8 % / 95.8 %Weight: 63 kg / 63 kg

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