

# LITHIUM STORAGE SYSTEM TS 48 V

The commercial all-rounder



## **APPLICATIONS**

- Back-up power:
  - In the case of a power failure, your storage system is ready to supply power in a split second.
- Self-consumption optimisation:
  Use more of the power you have generated.
- Off-grid power supply:
   Create your own utility grid, for example in combination with a photovoltaic system.



## **MAXIMUM SAFETY**

Prismatic battery cells are incredibly durable, safe and powerful – particularly in comparison to round cells. TESVOLT uses Samsung SDI cells and offers a performance guarantee of 10 years on the battery modules.



# FLEXIBILITY NOW AND IN THE FUTURE

Our TESVOLT TS storage systems not only offer flexible configuration options at the moment of purchase – thanks to the innovative Active Battery Optimizer technology, the capacity can also be expanded years later.





### **LONG LIFESPAN**

The lifespan of a battery has a huge impact on its economic efficiency. Our storage system features outstanding performance: all components are designed to last 8,000 cycles or offer a 30-year lifespan.



# HIGH PERFORMANCE WITHOUT COMPROMISE

TESVOLT TS storage systems can store energy very quickly, and release it again just as quickly. With a continuous power rating of 1C, the storage system is optimized for professional use in commercial applications, agriculture and industry.

# A POWERHOUSE FOR ALL PURPOSES

Our battery storage system can be optimally adapted to suit every application.

Whether it's used for emergency power, or coupled to the utility grid or off-grid, whether it's in the desert or the polar circle, with the TESVOLT TS storage system, TESVOLT is offering power storage technology for all types of use. The TESVOLT TS storage system is not only flexible, with a size and output that can be adapted to suit any need, it is also one of the most advanced and efficient storage systems. It is extremely robust and therefore well suited to the hardest tasks. Thanks to high-quality battery cells from the automobile industry and innovative technologies, such as the Active Battery Optimizer, our TESVOLT TS storage system is one of the most efficient and durable products on the market.







#### **BATTERY MODULE**

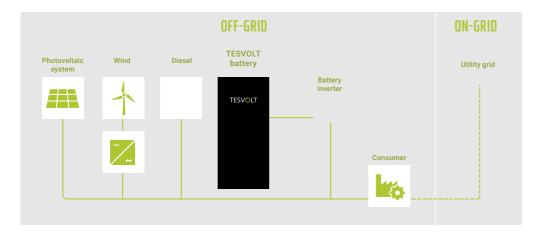
Every battery module has its own Active Battery Optimizer (ABO) that can be separated from the module in a few easy steps, for example, for servicing.

#### **SAMSUNG SDI CELLS**

Prismatic cells from Samsung SDI are extremely safe. For example, the NSD (Nail Safety Device) ensures that the cell will not catch fire even when penetrated with a metal nail.



- Active Power Unit
- Battery module
- 3 Overcharge Safety Device (OSD)
- 4 Vent
- 5 Fuse
- Active Battery Optimizer



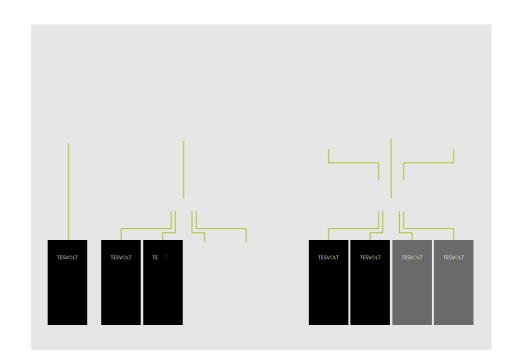
#### OFF-GRID OR ON-GRID

TESVOLT TS storage systems can be integrated into standalone grids and can also be connected to the utility grid. They can be flexibly combined with any sort of energy generator, including photovoltaics, bio energy, wind power and diesel generators.

#### MODULAR SYSTEM PRINCIPLE

## TESVOLT TS storage systems can be flexibly adapted to suit any operating purpose:

- The desired energy is built up in 4.8 kWh increments. An Active Power Unit (APU) can monitor up to 16 battery modules.
- Three different racks are available as housing, each holding up to 5, 8 or 10 battery modules.
- 1-phase or 3-phase supply and the desired connected load determine the number of battery inverters required.



#### **SYSTEM CONFIGURATIONS**

Potential capacities depending on power output using SMA Sunny Island inverters:

Energy of System																	
3686.4 kWh																	
230.4 kWh																	
211.2 kWh																	
192.0 kWh																	
172.8 kWh																	
153.6 kWh																	
134.4 kWh																	
115.2 kWh																	
96.0 kWh																	
76.8 kWh																	
57.6 kWh																	
38.4 kWh																	
24.0 kWh																	
19.2 kWh																	
14.4 kWh																	
9.6 kWh																	
4.8 kWh																	
SMA Sunny Island	3.3 kW		6,0 kW*		13.8 kW		36 kW	54 kW	72 kW	90 kW	108 kW	126 kW	144 kW	162 kW	180 kW	198 kW	216 KW
	1 x 4.4 M	1 x 6.0 H	1 x 8.0 H	3 x 4.4 M	3 x 6.0 H	3 x 8.0 H	Over 18 k	(W of pow	ver, the use	e with mu	ılticluster b	oxes is p	ermitted c	nly in off	-grid appl	cations.	

 $\star$  Locally applicable regulations and statutory standards require degrading to a maximum of 4.6 kM for grid-connected operation due to imbalance load specifications.