



TS HV 70 E LITHIUM STORAGE SYSTEM

The powerhouse with the E-factor* for commercial and industrial use

* Excellent performance and efficiency combined with optimum energy density and minimal space requirements

TESVOLT
THE ENERGY STORAGE EXPERTS



APPLICATIONS

- **Peak shaving:** Shave your consumption peaks and save money thanks to lower output use.
- **Self-consumption optimisation:** Use more of the power you have generated.
- **Multi-use applications:** Combine various applications such as self-consumption optimisation and peak shaving, time of use and self-consumption optimisation, or time of use and peak shaving.
- **Time of use:** Use of the storage system depends on the electricity tariff (charge when low; discharge when high).
- **Grid system services:** Manage reactive/active power or frequency and compensate for utility grid fluctuations.
- **Diesel hybrid optimisation:**
This system can help to reduce diesel consumption.



MAXIMUM EFFICIENCY

The TS HV 70 E is an extremely efficient battery storage system with low costs per kilowatt hour of stored energy. This is due to the guaranteed 100% depth of discharge as well as the comparatively low investment costs with increased energy density and reduced space requirements at the same time.





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 capacity guarantee of 10 years on the battery modules. The storage system also offers multi-layer protection of each individual cell as well as functional safety at system level.



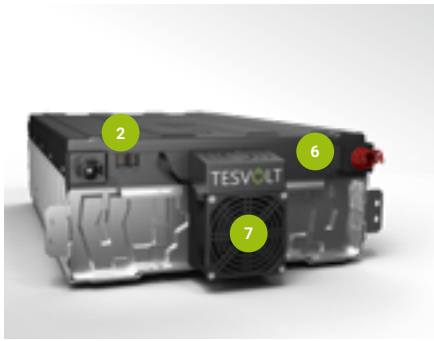
UNCOMPROMISINGLY POWERFUL

TS HV 70 E storage systems can store energy very quickly, and release it again just as quickly. With a continuous power rating of 1C for charging and discharging, combined with active cooling, it provides high-performance operation optimised for continuous use in industrial and commercial applications.

THE POWERHOUSE WITH EXTRA ENERGY

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

Whether used for increasing self-consumption, peak shaving or as part of a multi-use application, either connected to the utility grid or used off-grid to optimise diesel hybrid systems, the TESVOLT TS HV 70 E storage system is a technical storage system solution perfect for any application. Its advanced, cost-optimised design ensures unbeatable cost efficiency without compromising on quality and performance. It is extremely robust and well suited to even the toughest of tasks. High-quality battery cells from the automotive industry and innovative technologies such as the DynamiX Battery Optimizer make our TS HV 70 E storage system one of the most durable and high-performance products on the market.



BATTERY MODULE

Each battery module has its own DynamiX Battery Optimizer (DBO), allowing the fan to be actively operated by the balancing current.



SAMSUNG SDI CELL

Prismatic cells from Samsung SDI are extremely safe. For example, the nail safety device ensures that, even when penetrated with a metal nail, the cell will not catch fire.



SMA SUNNY TRIPOWER STORAGE 60

TS HV 70 E storage systems have been optimised for use with three-phase SMA Sunny Tripower Storage 60 battery inverters and are ideal for meeting demands in both commerce and industry.

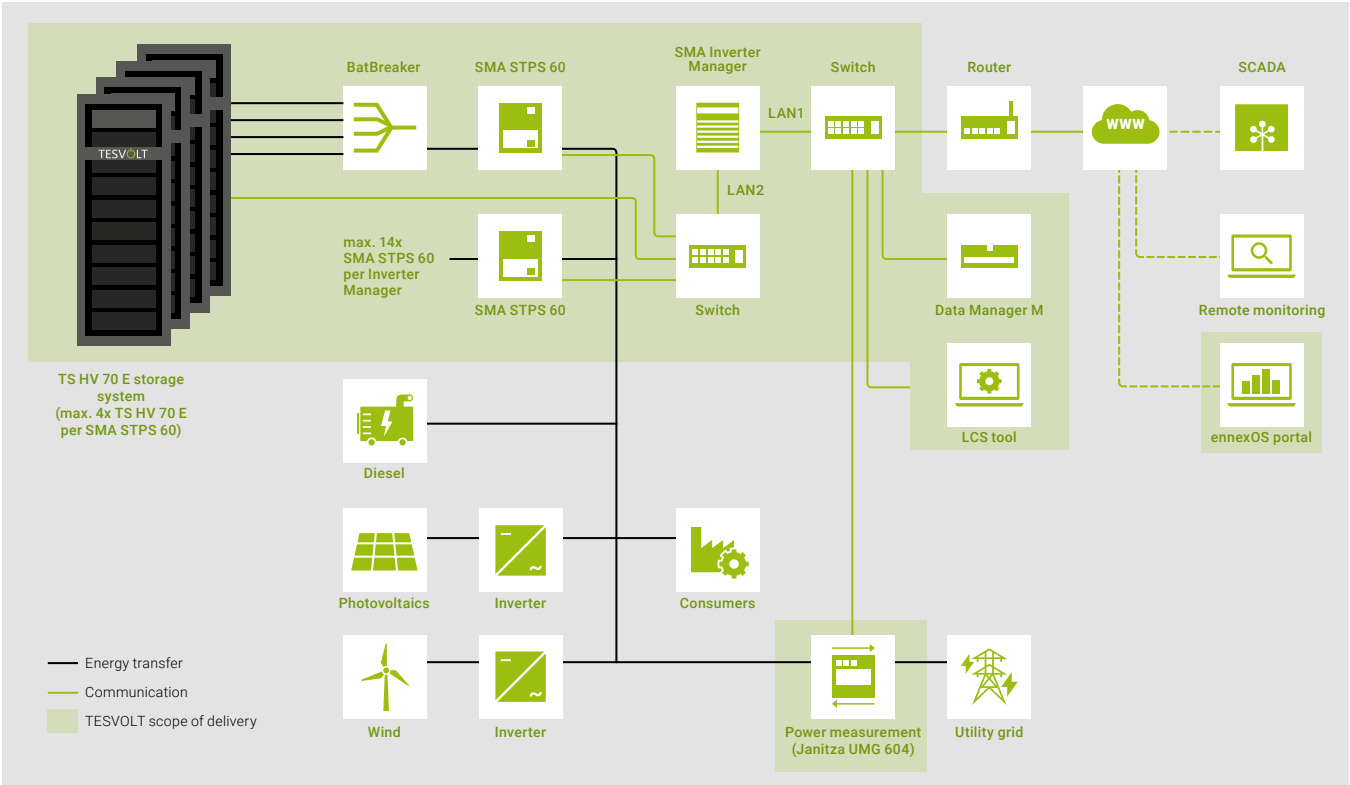
This unit can be used to implement storage solutions up to the megawatt range. An extremely wide range of grid system services are available thanks to the energy management system integrated in the Inverter Manager and the high C-rate of the TS HV 70 E storage systems. At the same time, the system also provides new opportunities in terms of cost efficiency, as the investment costs are significantly lower than those of conventional storage systems. TS HV 70 E storage systems are some of the most durable and high-performance products on the market.

- 1 Active Power Unit
- 2 Battery module
- 3 Overcharge safety device
- 4 Vent

- 5 Fuse
- 6 DynamiX Battery Optimizer
- 7 Fan



TS HV 70 E SYSTEM STRUCTURE



ABOUT TESVOLT

Daniel Hannemann and Simon Schandert established TESVOLT in the summer of 2014 with a vision to bring affordable, clean energy to every corner of the world.

Their aim was to develop and manufacture battery systems that store power from renewable energy sources as efficiently as possible. Given that the biggest energy consumers in many countries are commerce and industry, the company focused on storage systems with high energy capacity from the very beginning. Today, TESVOLT produces its solutions for commercial storage systems in series and supplies them all around the world.



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Your certified TESVOLT specialist partner

This data sheet is strictly informational and is not legally binding. The exact specifications and/or product features (particularly in case of further development of the product) may differ somewhat from the information provided here. Subject to errors and changes. Please read the safety and installation instructions carefully and completely before using the product. In case of purchase, the currently valid guarantee policies and the general terms and conditions of TESVOLT GmbH apply.

Registration in Sunny Portal powered by ennexOS from the manufacturer SMA ([Sunny Portal powered by ennexOS](#)) is required to use the energy management system (EMS) Data Manager M.