

# LITHIUM STORAGE SYSTEM TS HV

The commercial and industrial all-rounder



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# APPLICATIONS

- **Diesel hybrid optimisation:** Diesel hybrid systems can be optimised for consumption with this system.
- Time of use: Use of the storage system is dependent on the electricity cost (charge when low, discharge when high)
- **Peak shaving:** Cap your consumption peaks and save money thanks to lower output use.
- Self-consumption optimisation: Use more of the power you have generated.
- **Grid system services:** Manage frequency, effective and reactive power and balance grid fluctuations.
- Multi-use: Combine various applications such as self-consumption optimisation and peak shaving.

# 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.





## 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 HV 70 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 optimised 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 to increase self consumption or to cut peak loads, on- or off-grid to optimise diesel hybrid systems, whether in the desert or the Arctic circle – with the TESVOLT TS HV 70 storage system, TESVOLT offers a technical storage solution for any application. Its advanced, cost-optimised design makes for unbeatable efficiency – without sacrificing quality or performance. 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 HV 70 storage system is one of the most efficient and durable products on the market.





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.





#### **SMA SUNNY TRIPOWER STORAGE 60**

TESVOLT TS HV 70 storage systems are optimised for use with 3-phase SMA Sunny Tripower Storage 60 battery inverters, and as a system it is perfectly adapted for use in commercial applications and the industry.

It can be used to realise storage solutions up to the megawatt range. A wide range of very different grid system services can be provided thanks to the energy management system integrated in the Inverter Manager and the high C-rate of the TESVOLT TS HV 70 storage systems. At the same time, the system opens up new economic perspectives – investment costs are considerably lower than for conventional storage systems. TESVOLT TS HV 70 storage systems.



#### SYSTEM STRUCTURE



#### SYSTEM CONFIGURATIONS

This table displays the possible output depending on the energy and the number of SMA STPS 60 battery inverters:

![](_page_4_Figure_4.jpeg)

max. charging power