



# TS HV OUTDOOR

The weather-proof all-rounder for industry and commerce

**TESVOLT**  
THE ENERGY STORAGE EXPERTS



## APPLICATIONS

- **Charging infrastructure:** Supports the integration of charging stations with applications such as peak shaving, self-consumption optimisation and grid system services.
- **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:** Cut your peaks in consumption and save money by reducing the size of the mains connection.
- **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, etc.



## 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.

## PERFECTLY ADAPTABLE

Two different cooling concepts and additional optional features guarantee that the system can adapt perfectly to the operating conditions. This means you invest only in the features you need.







## ROBUST AND DURABLE

Thanks to the robust double-walled aluminium casing, the storage system offers the highest level of impact protection, IK 10. Battery cells and battery management are built to last an outstanding 8,000 cycles or offer a 30-year lifespan.



## HIGH PERFORMANCE

## WITHOUT COMPROMISE

TS HV 70 Outdoor 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 Outdoor 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 Outdoor storage system is one of the most efficient and durable products on the market.



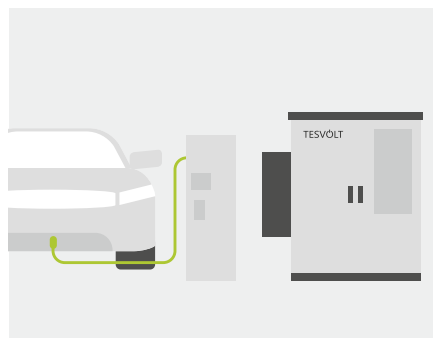
## BATTERY MODULE

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.



## APPLICATION CHARGING INFRASTRUCTURE

Small dimensions enable space-saving installation, e. g. on customer parking lots.

- 1 Overcharge safety device
- 2 Vent
- 3 Fuse
- 4 Battery module

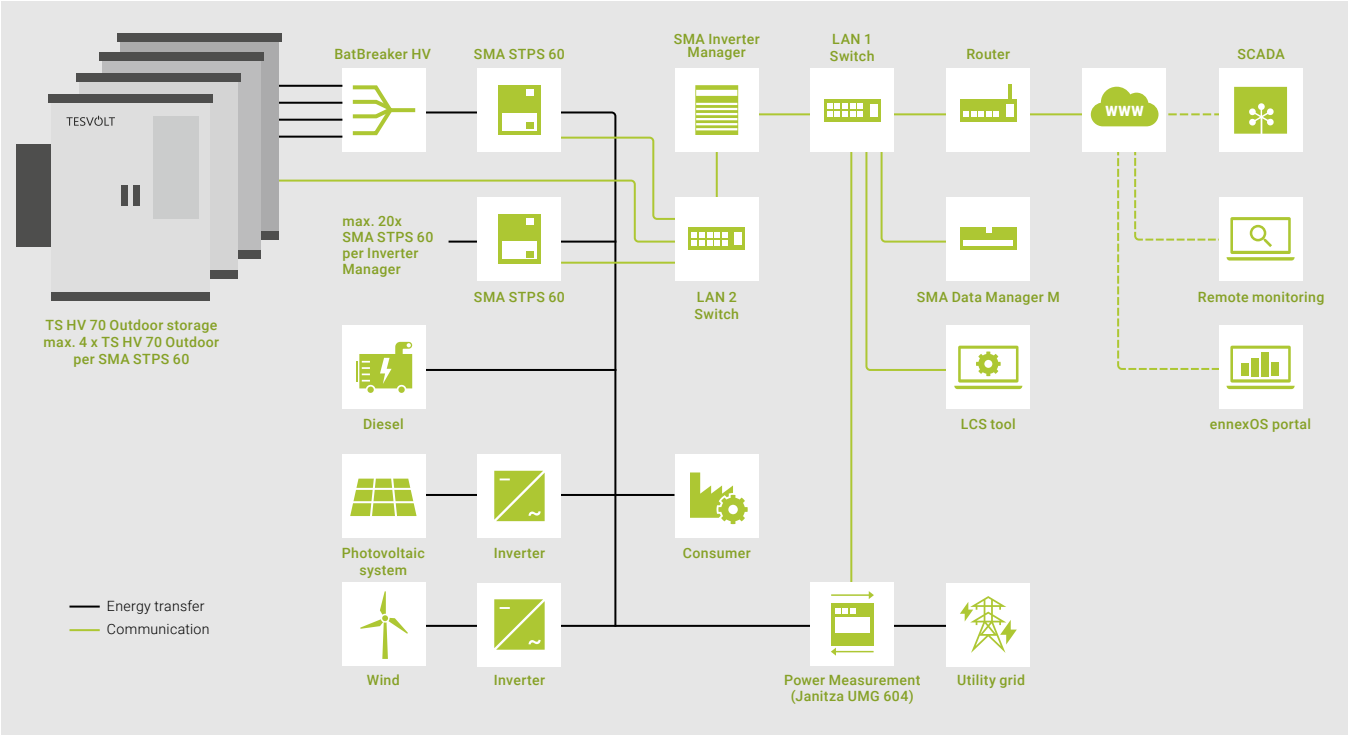
- 5 Active Battery Optimizer
- 6 Active Power Unit
- 7 Electrical connections
- 8 Housing for SMA STPS 60



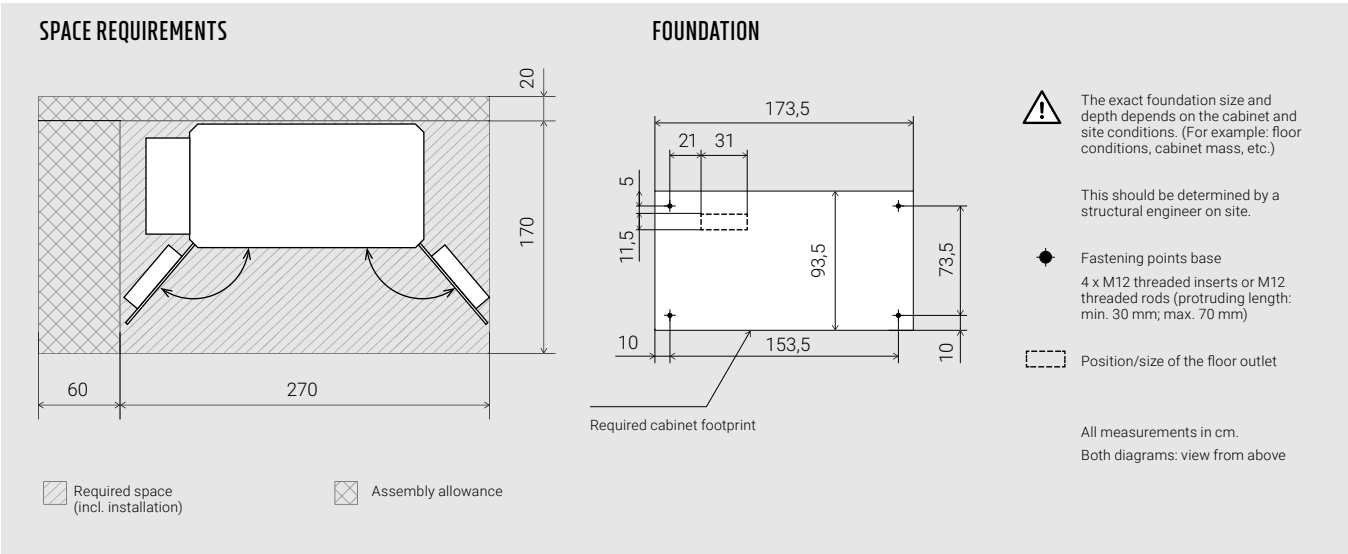
## SETUP

The TS HV 70 Outdoor storage system is designed to be completely modular, from the prismatic battery cells to the outdoor rack. It is therefore easily customised and extremely efficient, thanks to its long service life.

SYSTEM STRUCTURE



DIMENSIONS AND DISTANCES



SYSTEM CONFIGURATIONS

The following table shows the energy content by capacity as well as the number of outdoor racks and SMA STPS 60. The outdoor racks can be fitted with 14 or 16 battery modules.

Number of TS-HV-70 Outdoor-Racks		Energy of System									
4	304 kWh										
	268 kWh										
3	228 kWh										
	201 kWh										
2	152 kWh										
	134 kWh										
1	76 kWh										
	67 kWh										
System Power		60 kW	75 kW	120 kW	150 kW	180 kW	225 kW	240 kW	300 kW		
		1 x SMA STPS 60		2 x SMA STPS 60		3 x SMA STPS 60		4 x SMA STPS 60			

\* max. 20x SMA STPS60 possible