



TPS-E POWER STORAGE

The all-rounder for grids and industry with the E factor

TESVOLT
THE ENERGY STORAGE EXPERTS



APPLICATIONS*

- **Diesel hybrid optimisation:** This system can help to reduce diesel consumption.
- **Off-grid power supply:** Create your own utility grid, e.g. in combination with a photovoltaic installation.
- **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.
- **Grid system services:** Manage reactive/active power or frequency and compensate for utility grid fluctuations.
- **Ancillary services:** Energy services to back up the electricity grid, e.g. primary operating reserve, secondary operating reserve and tertiary control.

* Dependent on the connected inverter 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 10-year performance guarantee on the battery modules.

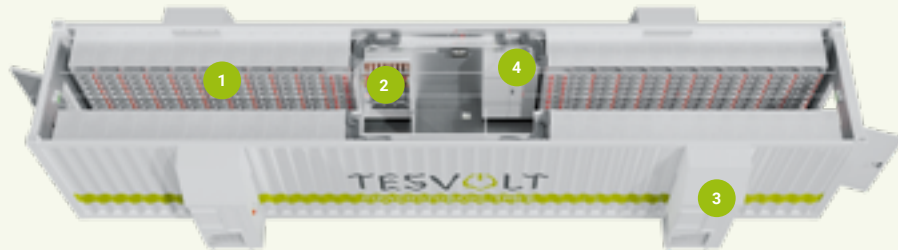


MAXIMUM LIFESPAN

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



THE ALL-ROUNDER WITH THE E FACTOR



- 1 Battery racks
- 2 DC combiner
- 3 Compact air conditioning unit
- 4 Fire alarm control panel

The TPS-E storage system has a fully modular design from the battery modules to the container for flexible adaptation and high efficiency thanks to its long lifespan.

*The graphics shown may differ from the actual structure.

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

Whether it's used to optimise self-consumption or shave peak loads, connected to the utility grid or used off-grid to optimise diesel hybrid systems, used in the desert or the Arctic Circle, with the TESVOLT TPS-E, TESVOLT is offering a technical storage system solution to suit every 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 the TESVOLT TPS-E storage system one of the most durable products on the market.

ECO COOLING SYSTEM

- Keeps noise at a sustainably low level
- Cuts operating costs

DYNAMIX BATTERY OPTIMIZER

- Brand new, dynamic balancing system
- No dead times – balancing takes place at the same time as storage system charging and discharging
- Greater efficiency and lower operating costs than comparable systems

OTHER BENEFITS

- Can be used up to a rated voltage of 1,300 V DC
- Black start-capable
- 100% DoD
- High level of resilience against failure of master/slave systems
- Greater economic efficiency thanks to higher energy density by area
- Remote maintenance possible
- Three different container sizes available (20, 40 or 45 ft)

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 a large 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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