

# TPS-E POWER STORAGE

The all-rounder for Grids and industry



Built to last 30 years • 1C charging speed • Extremely safe cell technology



## NEW: ECO cooling system

- Keeps noise at a sustainably low level
- Cuts operating costs by up to 30%

## NEW: Dynamix Battery Optimizer

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

## Other benefits

- Can be used up to a rated voltage of 1,300V DC
- Black-start capable
- 100% DoD
- Master/slave systems have a high level of resilience against failure (the slave takes over the master's role in the event of failure)
- More economical thanks to more power per cubic metre
- Remote maintenance possible
- AI-ready – prepared for automated AI error diagnosis
- Three different container sizes available (20, 40 or 45 ft)



- 1 Battery racks
- 2 DC distribution
- 3 HVAC

### Technical data (TESVOLT battery)

C-rate	1C	
Cells	Lithium NMC prismatic (Samsung SDI)	
Cell balancing	Dynamix Battery Optimizer	
Cycles @ 100% DoD   70% EoL   23°C ± 5°C	1C/1C	6,000
Cycles @ 100% DoD   70% EoL   23°C ± 5°C	0.5C/0.5C	8,000
Cycle efficiency (battery)	Up to 98%	
Operating voltage	Up to 1,300V DC	
Communication interface	CAN 2.0, Modbus TCP/IP	
Certificates/norms (currently in preparation)	Cells	IEC 62619, UL 1642, UN 38.3
	Product	CE, UN 38.3, IEC 62619, IEC 61000-6-2/4/7, German Battery Act 2006/66/EC
Warranty	10-year performance guarantee, 5-year system guarantee	
Recycling	TESVOLT offers free return of batteries from Germany	

### Container system

Size	20 ft	40 ft	45 ft
Dimensions (L x W x H)	6.06 x 2.44 x 2.90 m	12.12 x 2.44 x 2.90 m	13.72 x 2.44 x 2.90 m
Energy (max.)	1.94 MWh	3.40 MWh	4.66 MWh
Number of storage systems	Up to 20	Up to 35	Up to 48
Integrated DC main distribution box	•	•	•
External operating temperature range	-20 to 45 °C		
Altitude of installation site	< 2,000 m above sea level (other specifications on request)		
Protection class	IP 54		
Special equipment (optional)	Fire alarm system, fire extinguisher, CSC certification, available in all RAL colours, greater operating temperature range, corrosion protection to C4		

Your certified TESVOLT specialist partner

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