

POWER STORAGE TPS 2.0

The all-rounder for network services
and the industrial sector



Designed for 20 years • 1C charging speed • The safest cell technology



GRID SYSTEM SERVICES



INCREASE SELF CONSUMPTION



PEAK LOAD CAPPING



GEN SET OPTIMISATION



PEAK SHAVING



EMERGENCY POWER

NEW: ECO Cooling System

- sustainably reduces noise
- saves up to 30% on operating costs

NEW: Dynamix Battery Optimizer

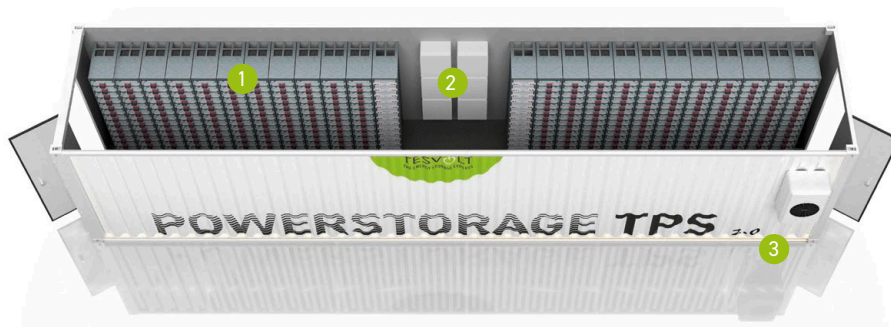
- completely newly developed dynamic balancing system
- quick thanks to high balancing current
- no dead time – balancing occurs simultaneously to charging and discharging of the storage system
- low operating costs due to optimized service concept

Other benefits

- can be used up to a rated voltage of 1,300 V DC
- black start capable
- 100% DoD
- high failure protection by master/slave systems (if the master fails, slave will assume its role)
- more economical thanks to higher performance per cubic meter
- remote maintenance possible
- AI-ready – prepared for automated AI fault diagnostics
- three different container sizes available (20 ft, 40 ft or 45 ft)
- easy transport on water and land thanks to ISO containers
- optimized for use with SMA SCS

TESVOLT
THE ENERGY STORAGE EXPERTS

Preliminary



- 1 Battery racks
- 2 DC distribution
- 3 Air conditioning

TESVOLT battery technical specifications

C-rate	1C	
Cell	Lithium NMC prismatic (Samsung SDI)	
Cell-balancing	DyamiX Battery Optimizer	
Expected cycles at 100% DoD 70% EoL 23°C ± 5°C	1C/1C	6,000
Expected cycles at 100% DoD 70% EoL 23°C ± 5°C	0,5C/0,5C	8,000
Cycle efficiency (battery, DC/DC)	up to 98%	
Operating voltage	up to 1 300 V DC	
Communication interface	CAN 2.0, Modbus TCP/IP	
Certificates/norms (currently in preparation)	Cell:	IEC 62619, UL 1642, UN 38.3
	Battery system:	CE, UN 38.3, IEC 62619, IEC 61000-6-2/4, UL1973, BattG 2006/66/EG
Warranty	10-year capacity warranty, 5-year system warranty	
Recycling	free battery take-back program from TESVOLT in 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.)	2.17 MWh	3.68 MWh	4.35 MWh
Number of storage systems	26	44	up to 52
Integrated DC main distribution board	•	•	•
External temperature range for operation	-20 to 45 °C		
Elevation of installation location	< 2,000 m above sea level (other specifications available upon request)		
Protection class	IP 54		
Optional extras	Extended operating temperature range, overvoltage protection, fire alarm unit, fire suppression system, CSC certification, corrosion protection up to C4, available in all RAL colours		
Fire resistance class	Standard F60 (optional F90)		

Your certified TESVOLT partner

TESVOLT GmbH

Am Heideberg 31
D-06886 Lutherstadt Wittenberg
Germany

info@tesvolt.com
www.tesvolt.com

