

# TECHNICAL DATA SHEET

## TPS-E

### TESVOLT TS HV 90 TECHNICAL DATA

C-rate		1C
Cell		Lithium NMC prismatic (Samsung SDI)
Cell balancing		DynamiX Battery Optimizer
Cycles expected at 100% DoD   70% EoL   23°C ± 5°C 1C/1C		6,000
Cycles expected at 100% DoD   70% EoL   23°C ± 5°C 0.5C/0.5C		8,000
Cycle efficiency (battery)		up to 98%
Operating voltage		up to 1,300 V DC
Communication interface		CAN 2.0, Modbus TCP/IP
Certificates/standards (currently in preparation)	Cell	IEC 62619, UL 1642, UN 38.3
	Product	CE, UN 38.3, IEC 62619, IEC 61000-6-2/4/7, BattG 2006/66/EC
Guarantee		10-year performance guarantee, 5-year system guarantee
Recycling		TESVOLT offers a free take-back scheme for batteries from Germany
Protection class		IP 20
Battery specification as per DIN EN 62620:2015		INP46/175/127/[1P22S]M/-20+60/90

### 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.)	1.9 MWh	4.2 MWh	4.6 MWh
Number of storage systems	up to 19	up to 42	up to 48
External operating temperature range	-20°C 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 extinguisher, CSC certification, available in all RAL colours, greater operating temperature range, corrosion protection to C4		

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