TECHNICAL DATA SHEET TPS HV 80 E



TECHNICAL DATA ENERGY STORAGE

Energy content	80 kWh (per battery string)
Nominal voltage	810 V
Minimum operating voltage	704 V
Maximum operating voltage	913 V
maximum charging/discharging current	100 A
Maximum C-Rate	10
Cell	Lithium NMC prismatic (Samsung SDI)
Cell balancing	DynamiX Battery Optimizer
Cycles expected @ 100% DoD 70% SoH 23°C +/-5°C 1C/1C	6,000
Cycles expected @ 100% DoD 70% SoH 23°C +/-5°C 0.5C/0.5C	8,000
Efficiency (battery)	up to 98 %
Self-consumption (standby)	5 W (without battery inverter)
Cooling concept	passive via fins and active via fans
Altitude of installation site	< 2,000 m above sea level.
Operating temperature	0 °C to 50 °C
Ambient temperature	0 °C to 50 °C
Humidity	0 to 80 % (non-condensing)
Weight battery module	56 kg
Weight battery magament system (APU)	13 kg
Certificates/standards Cell	IEC 62619, UL 1642, UN 38.3
Product	CE, UN 38.3, IEC 62619, IEC 62620, IEC 61010, IEC 61508, IEC 61000-6-2/4/7, 2006/66/EG (Battery Directive)
Guarantee	10-year performance guarantee, 10-year system guarantee
Recycling	TESVOLT offers a free take-back scheme for batteries from Germany
Protection class	IP 20
Degree of protection battery module	II
Battery specification as per IEC 62620:2015	INP46/175/127/[1P22S]M/-20+60/90

TECHNICAL DATA FOR BATTERY INVERTER SMA STPS 50

Nominal power (AC)	50 kVA
AC voltage range	200 to 980 V
Dimensions (H x W x D)	873, x 770 x 443,8 mm
max. efiiciency	97 %
Self-consumption (standby)	< 3 W
Operating temperature	- 25 to 60 °C
Weight	104 kg
Protection class	IP 65 NEMA 4X
Communication	Modbus (SMA, Sunspec), SMA Speedwire, Webconnect
Topologie	transformerless
Garantie	5 years



TECHNISCHE DATEN CONTAINER

Corrosion protection (paint)	C3						
Ambient temperature (air conditioning)	-10 °C to 40 °C						
Altitude of installation site	< 2,000 m above sea level						
Sizes [ft]	10	20					
Dimensions (as delivered) H x W x D [mm]	2,896 x 2,439 x 3,786	2,896 x 2,439 x 7,013					
Dimensions (after installation) H x W x D [mm]	2,896 x 3,450 x 3,786	2,896 x 3,450 x 7,013					
Number of storage systems	8	16					
Max. energy content [kWh]	640	1,280					
included in standard scope of delivery	Rack system, AC subdistribu according to DIN 14675, rup	em, AC subdistribution, air conditioning, fire alarm system to DIN 14675, rupture disk					
Special equipment (optional)		CSC certification, available in other RAL colors, extended operating temperature range, corrosion protection up to C4					

SYSTEM CONFIGURATION

Number of systems	Energy [kWh]																
16	1280				20 ft				20 ft								20 ft
15	1200					20 ft										20 ft	
14	1120							20 ft							20 ft		
13	1040													20 ft			
12	960			20 ft	20 ft		20 ft						20 ft				
11	880											20 ft					
10	800					20 ft					20 ft						
9	720			20 ft						20 ft							
8	640		10 ft		10 ft				10 ft								
7	560							10 ft									
6	480		10 ft	10 ft			10 ft										
5	400					10 ft											
4	320	10 ft	10 ft		10 ft												
3	240	10 ft		10 ft													
2	160	10 ft	10 ft														
1	80	10 ft															
Output [kW]		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Number of SMA STPS !	50	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Available configurations Container size

Am Heideberg 31 | 06886 Lutherstadt Wittenberg Deutschland | Germany

Phone +49 (0) 3491 8797 100 info@tesvolt.com | www.tesvolt.com













