

# TECHNICAL DATA SHEET TS HV 70 E

# TECHNICAL DATA FOR BATTERY STORAGE SYSTEM

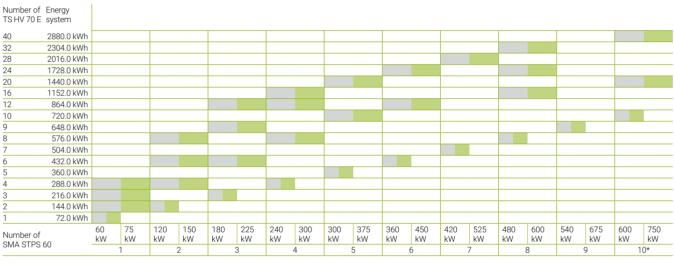
T decisesting		TO LIV 70 /0 00
Type designation		TS HV 70/9-20
Energy content		72 kWh (at 100% DoD)
Nominal voltage		729 V <del></del>
Min. operating voltage		634 V <del></del>
Max. operating voltage		822 V ==
Nominal charging/discharging current		100 A <del></del>
Max. C-rate		1C
Cell		Lithium NMC prismatic (Samsung SDI)
Cell balancing		DynamiX Battery Optimizer
Cycles expected @ 100% DoD   70% EoL   23°C +/-5°C 1C/1C		6000
Cycles expected @ 100% DoD   70% EoL   23°C +/-5°C 0.5C/0.5C		8000
Efficiency (battery)		Up to 98%
Self-consumption (standby)		5 W (without battery inverter)
Operating temperature		0°C to 50°C
Ambient temperature		0°C to 50°C
Humidity		0 to 80% (non-condensing)
Cooling concept		Passive via fins and active via fans
Altitude of installation site		< 2,000 m above sea level
Weight	Total	656 kg
	Cabinet	131 kg
	Battery module	56 kg
	Battery management system (APU)	13 kg
Dimensions (H x W x D)		2008 x 608 x 990 mm
,	Tilt height	2155 mm (front/back)/2090 mm (lateral)
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/EC (Battery Directive)
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
Protection class		
Battery specification as per DIN EN 62620:2015		INP46/175/127/[1P22S]M/-20+60/90

### TECHNICAL DATA FOR BATTERY INVERTER

Manufacturer	SMA
Type designation	STPS 60
Nominal charging power (AC)	60 kVA
Nominal discharging power (AC)	75 kVA
DC voltage range	575 V to 1000 V
Dimensions (H x W x D)	740 × 570 × 306 mm
Max. efficiency	98.8%
Self-consumption (standby)	< 3 W
Operating temperature	−25 to 60°C
Weight	77 kg
Protection class	IP 65   NEMA 3R
Communication	Modbus TCP/IP
Topology	Transformer-free
Guarantee	5 years
Certificates	See data sheet STPS 60 (SMA)

## SYSTEM CONFIGURATION

This table displays the possible output depending on the energy and the number of SMA STPS 60 battery inverters:



\* max. 14 SMA STPS 60 per Inverter Manager





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