TESVOLT Free to go green.

TECHNICAL DATA SHEET TMS FLEX C

Product category		Energy storage system		
Product name		TMS flex C		
Type designation		TS HV 50/4-20	TS HV 50/5-20 TS HV 50/6-20	TS HV 50/8-20 TS HV 50/9-20
Energy content (et 100%	DoD)	32 kWh	TS HV 50/7-20	TS HV 50/10-20
Energy content (at 100%	עסטן	32 KWN	40 kWh / 48 kWh / 56 kWh 405 V == / 486 V == / 567 V ==	64 kWh / 72 kWh / 80 kWh 648 V == / 729 V == / 810 V ==
Nominal voltage				581 - 730 V = / 653 - 822 V = /
Operating voltage		290 - 365 V 	363 - 457 V = / 436 - 548 V = / 508 - 639 V =	726 - 913 V == / 653 - 822 V == /
Nominal/maximum charg	ging/discharging current		100 A 	
Max. C-Rate			1C	
Overvoltage category			III	
Cell		Lithium NMC prismatic (Samsung SDI)		
Cell balancing		DynamiX Battery Optimizer		
Cycles expected @ 100% DoD 70% SoH 23°C +/-5°C 1C/1C		6000		
Cycles expected @ 100% 0.5C/0.5C	DoD 70% SoH 23°C +/-5°C		8,000	
Efficiency (battery)			up to 98%	
Self-consumption (standby)		5 W (without battery inverter)		
Operating temperature		0°C to 50°C (derating at low temperatures)		
Ambient temperature		0°C to 50°C (optimal: 25°C +/-5°C)		
Ambient temperature for capacity guarantee		10°C to 45°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		
Max. noise emission (per fan running)		65 dB		
Weight	Total	Approx. 346 kg	Approx. 346 kg	Approx. 615 kg
		•	Approx. 482 kg Approx. 538 kg	Approx. 671 kg Approx. 727 kg
	Battery module		56 kg	
	APU		13 kg	
	Cabinet	107 kg	130 kg	150 kg
Dimensions (H x W x D)	Cabinet	1208 mm x 608 mm x 808 mm	1608 mm x 608 mm x 808 mm	2008 mm x 608 mm x 808 mm
	Cabinet with wall bracket	1208 mm x 608 mm x 990 mm	1608 mm x 608 mm x 990 mm	2008 mm x 608 mm x 990 mm
Tilt height of cabinet forw	vards, backwards/sidewards	1426/1339 mm	1778/1705 mm	2155/2090 mm
Certificates/standards	Cell	IEC 62619:2017, UL 1642, UN 38.3		
	Battery module	UN 38.3, IEC 62619:2017, IEC 62620:2014		
	Product	CE, UN 38.3, IEC 62619:2017, IEC 61010-1+A1:2016, IEC 61508:2010, IEC 61000-6-2:2016, IEC 61000-6-4:2019, IEC 61000-6-7:2015, 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				
Pollution degree		PD 2		
IK class		IK 10		
Battery specification as per IEC 62620:2014		INP46/175/127/[1P22S]M/-20+60/90		
battery specification as p	JEL 1EU 02020.2014	II	NF4U/ 1/3/ 1Z//[1FZZ3]IVI/-ZU+0U/	30

TESVOLT AC

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This data sheet is strictly informational and is not legally binding. The exact specifications and/or product features (particularly in case of further development of the product) may differ somewhat from the information provided here. Subject to errors and changes. Please read the safety and installation instructions carefully and completely before using the product. In case of purchase, the currently valid guarantee policies and the general terms and conditions of delivery and business of TESVOLT AG apply.