## TESVOLT Free to go green.

## TECHNICAL DATA SHEET TMS FLEX R

Product category	Energy storage system		
Product name	TMS flex R		
Type designation	TMS 4-20 R	TMS 5-20 R	TMS 8-20 R
,, ,		TMS 6-20 R	TMS 9-20 R
		TMS 7-20 R	TMS 10-20 R
Energy content (at 100% DoD)	32 kWh	40 kWh	64 kWh
,		48 kWh	72 kWh
		56 kWh	80 kWh
Nominal voltage	324 V <del></del>	405 V / 486 V / 567 V	648 V / 729 V / 810 V
Operating voltage	290 - 365 V <del></del>	363 - 457 V = / 436 - 548 V = / 508 - 639 V =	581 - 730 V = / 653 - 822 V = / 726 - 913 V =
Nominal/maximum charging/discharging current	100 A <del></del>		
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% 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)		
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 Battery module	56 kg		
APU	13 kg		
Dimensions Rack (H x W x D)	991 mm x 450 mm x 750 mm	1159 mm x 450 mm x 750 mm 1372 mm x 450 mm x 750 mm	1663 mm x 450 mm x 750 mm 1831 mm x 450 mm x 750 mm
		1495 mm x 450 mm x 750 mm	1999 mm x 450 mm x 750 mm
Tilt height of rack sidewards	1090 mm	1245 mm	1725 mm
•		1400 mm	1885 mm
		1560 mm	2050 mm
Certificates/ Cell standards		IEC 62619:2017, UL 1642, UN 38.3	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		
Battery specification as per IEC 62620:2014	INP46/175/127/[1P22S]M/-20+60/90		
Buttery opcomodation as per 120 02020.2014	II.	10, 170, 127/[11 220][VI/ 20+00/	20

## 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.