

Industrial Battery Storage by STABL
Reliable. Safe. Efficient.



Datasheet

20 ft Container

STABL

Datasheet

20 ft Container

General data		
System type	AC-coupled battery storage system (BESS) in air-conditioned 20ft container	
Scalability	scalable as required	
Communication standards	Modbus TCP	
Compatible EMS / EZA controllers	Smart 1, Energielenker, Plexlog, Omexom on request	
Application areas	Peak Shaving, self-consumption optimization, trading, procurement optimization	
Electrotechnical data		
Number of individual systems	6	
Power	405	kW
Energy content, nominal	1.486	kWh
Energy content, usable	1.233	kWh
C-rate	0,3	
Battery type	Automotive-grade batteries (NMC)	
Batterie DC-voltage (per modul)	44	V dc
Nominal AC voltage / AC voltage range (3-phase)	400	V ac
Grid form	TN-S, TN-C-S, TT	
Round trip efficiency (RTE)	94.6	%
Modular multi-level inverter ¹⁾		
Nominal AC-power	67,5	kVA
Nominal AC-current (continuous, bidirectional)	97,8 (RMS)	A
Operating voltage	0 - 68	V dc
Max. efficiency	99.40	%
Self-consumption (Standby)	10	W
Protection class electronics (to IEC 60529)	IP 20	
Design data Container		
Dimensions without HVAC-Unit (HxWxL)	3.000 x 2.500 x 6.100	mm
Dimensions with HVAC-Unit (HxWxL)	3.000 x 2.500 x 7.000	mm
Weight (max.)	22.000	kg
Corrosion protection (paint)	C3	
Ambient temperature (air conditioning)	-20 bis +40	°C
Noise emission	<65	dB(A)
Included in the standard scope of delivery	HVAC, 4-stage safety concept, fire and gas detection system, explosion protection mechanism, RCD	
Special equipment (optional)	Corrosion protection up to C4, connection to fire alarm center	
Norms and standards		
Directives and laws	2023/1542/EU (BR), 765/2008/EU (CE), 2014/30/EU (EMC), 2011/65/EU (ROHS), 1907/2006/EU (REACH), 2014/35/EU (LVD)	
Norms	VDE-AR-N 4110:2023-09, VDE-AR-N 4120:2018-11, TOR Erzeuger B und C, IEC 62619:2022, IEC 63056:2020, EN 61000-6-2:2005 / AC:2005, EN 61000-6-4:2007 / A1:2011, EN 62477-1:2012 / A11:2014, UN 38.8 Revision 8	
Performance & Product guarantee		
Performance guarantee on the battery	10 years or 5.000 cycles with 75 % residual capacity (Basic)	
Options for performance guarantee extensions	12 years or 7.000 cycles with 80 % residual capacity (Plus) 15 years or 8.000 cycles with 80 % residual capacity (Premium)	
Design Life	20 years	

¹⁾ Values apply per system and must be multiplied by the number of systems