STABL

Industrial Battery Storage by STABL

Reliable. Safe. Efficient.

DATASHEET

20 ft Container



Your Advantages

- High round-trip efficiency of over 94%
- Optimal use of battery capacity
- Maximum safety thanks to low voltage (max. 68 V per module)
- Fail-safe design: bypassing faulty modules for maximum availability
- 24/7 monitoring down to cell level

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	Energielenker, Plexlog, Meteocontrol, AMPERIX®, coneva / on request	
Application areas	Peak Shaving, self- consumption optimization, flexibility services, trading, procurement optimization	
Electrotechnical data		
Power	405	kW
Energy content, nominal	1.958	kWh
Battery type	Automotive-grade batteries (NMC)	
Batterie DC- voltage, nominal (per module)	58	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	%
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 6.900	mm
Weight (max.)	24.000	kg
Corrosion protection (paint)	C3 (standard), C4 (optional)	
Protection class	IP 54	
Operating temperature range	-20 bis +40	°C
Noise emission (distance of 1m and 1.5 m above ground)	<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 55011:2016/A1:2017/A11:2020/A2:2021, EN IEC 62477-1:2023, UN 38.8 Revision 8	
Performance & Product guarantee [2]		
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 75 % residual capacity (Plus) 15 years or 8.000 cycles with 75 % residual capacity (Premium)	
Design Life	20 years	
Installation conditions		
Installation distance from the coast	> 5000 (optional: >1000)	m
Maximum installation height	2000 above sea level (>2000 requires approval by STABL Energy)	m
Humidity range	40 – 80	%

The data mentioned are subject to change. Please contact us for the latest information: sales@stabl.com.

[1] These are system values. Values must be multiplied by the number of systems (6)
[2] 2 full cycles per day | Recovery time: 10 hours after two consecutive full cycles at full power / -20°C to +40°C (air conditioning)