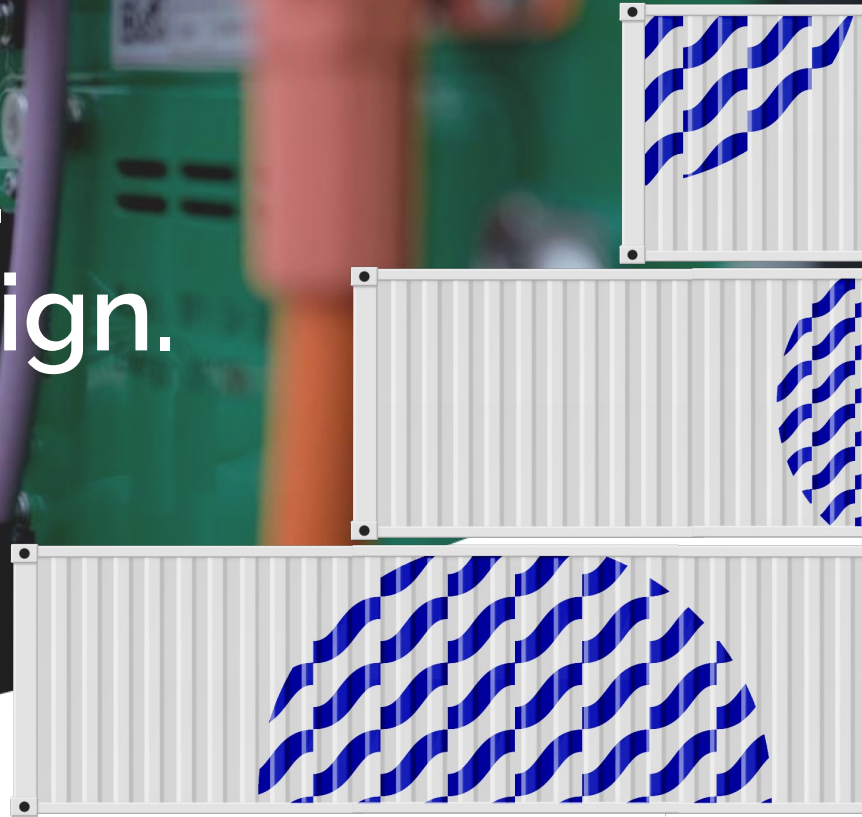


Safe storage.
Scalable design.
SmartGrid.



Robust practices that prioritise safety and security at every turn.



Modular technology that can scale to meet your unique needs.



Connected software to facilitate communication & data exchange.

About Smart Grid

We are a cleantech solution provider of smart energy storage systems that unlock our customers' transition to clean & green operations. From construction to transport and off-grid living, SmartGrid's modular and scalable design can deliver the right solution for any energy storage challenge you put to us.

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Container solutions

Battery energy system - DC

Battery system parameter	SG10 DC 1100	SG20 DC 2200	SG40 DC 4400
Cell Chemistry	LiFePO4	LiFePO4	LiFePO4
Rated capacity	Max 1444 Ah	Max 2880 Ah	Max 5760 Ah
Rated energy	Max 1106	Max 2212 kWh	Max 4424 kWh
DC voltage range	720-864, 768 nominal	720-864, 768 nominal	720-864, 768 nominal
Pack type	SG180Ah-38V4-0C4	SG180Ah-38V4-0C4	SG180Ah-38V4-0C4
Packs in series	20	20	20
Number of clusters	Max 8	Max 16	Max 32
Charge / discharge rate	0.4 - 1C	0.4 - 1C	0.4 - 1C
Charge / discharge current	Max 100A	Max 100A	Max 100A
Rated cycle life @25 oC	8000 cycles, DoD = 90%	8000 cycles, DoD = 90%	8000 cycles, DoD = 90%

Technical data

DC Interface	
DC-in	2 x 400A powerlock (+ and -)
DC-out	2 x 400A powerlock (+ and -)
Control Interface	32 I/O, 24Vdc power
Communication	CAN

Standards	
Standards conformity	CE, UL/UR, CSA, others upon request. Applicable standards.
Applicable standards	Safety: IEC 62477, IEC 62485 EMC: IEC 61000-6-2, IEC 61000-6-4



Container solutions

General data

General data	SG10 DC 1100	SG20 DC 2200	SG40DC 4400
Dimensions (L x W x H)	2991 x 2438 x 2591 mm	6058 x 2438 x 2591 mm	12192 x 2438 x 2591
Weight	≈ 12.000 kg	≈ 25.000 kg	≈ 50.000 kg *
Ambient temperature	-25... +45°C (extended range upon request)	-25... +45°C (extended range upon request)	-25... +45°C (extended range upon request)
Noise level	< 65 dB(A) at 1 m distance	< 65 dB(A) at 1 m distance	< 65 dB(A) at 1 m distance
Max. working altitude	.000 m (higher altitudes available upon request)	.000 m (higher altitudes available upon request)	.000 m (higher altitudes available upon request)

Control system (optional)	
Functions	Monitoring, control, power & energy forecast, self-maintenance
Local interfaces	Touch screen, HMI with access to status, commands and diagnosis
Data logging	1 & 15 min data resolution available; real-time & historical data
Remote connections via	4G / Internet
Communication interfaces	Profibus, CAN, Modbus TCP, Profinet, other upon request