



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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Technical specifications

Trailer Battery Energy Storage System - AC

System scope	Factory assembled battery System: Trailer, Batteries, Inverter, Control
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Trailer BESS System parameter SG T-BESS AC 15-32

Nominal power range	Up to 15KVA
Rated capacity	32kWh
Grid voltage	230 Vac-1P / 400 Vac-3P
Grid Frequency	50Hz

Battery data

Battery type	SB NOMIA 210
Cell chemistry	Lithium Iron Phosphate LiFePO4 (LFP)
Rated cycle life @25 oC	≥ 3500 cycles
Rated energy throughput over life	≥ 110MWh

Interfaces

AC-in	1 x CEE 400Vac/16A-3P, 1 x 230Vac/16A
AC-out	1 x CEE 400Vac/16A-3P, 1 x 230Vac/16A
EV-in	Prepared
EV-out	1 x 400Vac/16A

Standards

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



Trailer solutions

General data

General data	
Dimensions (L x W x H)	1810 x 1010 x 830 mm (box)
Weight	≈ 705 kg
Ambient temperature – discharge	-20 ... +40°C
Ambient temperature - charge	0 ... +40°C
Noise level	< 59 dB(A) at 1 m distance
Max. working altitude	1.000 m (higher altitudes available upon request)
Cooling	Air cooling

Control system	
Functions	Monitoring (system data, GPS), Control, Black start
Supported applications	Peak shaving, Peak shifting, Backup/UPS, Off Grid
Local interfaces	HMI with access to status, status indication light
Remote monitoring via	4G
Power usage	Off: <5W; Sleep mode: control <15W; Standby: t.b.d.