

GREEN & STRONG

NEW ENERGY & ENERGY STORAGE SOLUTIONS



PRODUCT CATALOGUE 2026

Energy storage power stations · High-power batteries · Residential energy storage
· Portable power stations · Accessories · Solar PV solutions

For Bangladesh and export markets

www.greenstrongenergy.com

ABOUT US

About GREEN & STRONG

GREEN & STRONG is a new energy and energy storage solutions provider based in Wuhan, China, serving customers in Bangladesh and export markets.

We bring together a broad range of energy storage products, from utility-scale battery containers and commercial & industrial cabinets to home batteries, hybrid inverters, portable power stations and 12.8 V LiFePO4 batteries, so that customers can source a complete system through one contact.

Our aim is simple: help each customer choose equipment that fits the site, the load and the budget, and keep communication clear from enquiry to delivery.

WHAT WE OFFER

01

One-stop product range

Storage systems, batteries, inverters, portable power and accessories presented in one catalogue.

02

Solution matching

Support in selecting compatible batteries, inverters, PCS and monitoring for each application.

03

Projects and distribution

Products for utility and C&I projects as well as for distributors, installers and end users.

04

Focus on Bangladesh

Solutions for load-shedding backup, diesel reduction and solar self-consumption, with supply to other export markets.

OUR PRODUCT RANGE

01

Project Energy Storage Power Stations

Utility-scale containers, PV-storage-diesel hybrid systems, C&I outdoor cabinets, MV power skids and system control for grid-side, renewable and industrial projects.

02

High-Power Energy Storage Batteries

High-voltage liquid-cooled battery packs for system integration, large 51.2 V mobile battery packs and 48 V rack batteries.

03

Residential Energy Storage

Wall-mounted and stackable home batteries, all-in-one stacked solar storage systems and hybrid inverters for homes, shops and small offices.

04

Portable Power Stations

Compact 220 V LiFePO4 power stations from 650 Wh to 2 kWh, and large mobile power stations from 6 to 48 kWh for sites, events and rental fleets.

05

Accessories & Others

12.8 V LiFePO4 batteries for IPS, solar home systems and light electric vehicles, plus battery management and monitoring software.

06

Solar PV Solutions & Project Capability

Distributed rooftop and centralized ground-mounted PV, with design, equipment supply, installation support and PV + storage integration.

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OVERVIEW

Product Lineup at a Glance

No.	Model	Product	Key rating	Page
01 PROJECT ENERGY STORAGE POWER STATIONS				
01	GS-C5000L	5 MWh 20 ft Liquid-Cooled Battery Container	5.016 MWh, 1331.2 V, 20 ft	06
01	GS-HC Series	10 ft PV-Storage-Diesel Hybrid Container, 125 – 500 kW / 522 – 1044 kWh	125 – 500 kW / 522 – 1044 kWh	07
01	GS-CI261L	125 kW / 261 kWh Liquid-Cooled C&I Outdoor Cabinet	125 kW / 261 kWh	08
01	GS-CI215L / GS-CI215A	100 kW / 215 kWh C&I Cabinets: Liquid-Cooled or Air-Cooled with PV Input	100 kW / 215 kWh	09
01	GS-SK5000S / GS-SK5000C	PCS & MV Step-Up Transformer Skid (String or Centralized)	24 × 215 kW or 4 × 1250 kW, 6 – 35 kV	10
01	GS-PCS430 / GS-PCS215 & GS-EMS	Grid-Forming String PCS and Energy Management System	430 / 215 kVA	11
01	GS-CI418HV	418 kWh 1500 V Liquid-Cooled Battery Cabinet	418 kWh, 1331.2 VDC	12
01	GS-CI-i Series	Immersion-Cooled All-in-One C&I Cabinets, 215 – 261 kWh	100 – 125 kW / 215 – 261 kWh	13
02 HIGH-POWER ENERGY STORAGE BATTERIES				
02	GS-HV52L	52 kWh Liquid-Cooled Battery Pack (1P52S)	52 kWh, 166.4 V	15
02	GS-HV104L	104 kWh Liquid-Cooled Battery Pack (1P104S)	104.49 kWh, 322.8 V	16
02	GS-LV Series	51.2 V Movable Battery Packs, 15 – 32 kWh	51.2 V, 15 – 32 kWh	17
02	GS-RK4.8	48 V 100 Ah Server-Rack LFP Battery (4.8 kWh)	48 V / 100 Ah	18
03 RESIDENTIAL ENERGY STORAGE				
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03	GS-S10 / GS-S15 / GS-S20	Stackable Home Batteries, 10 – 20 kWh	10.24 – 20.48 kWh, 5 kW	21
03	GS-A3.6 / GS-A6 / GS-A12	All-in-One Stacked Solar Storage Systems (Inverter + Battery)	3.6 – 12 kW, up to 61.44 kWh	22
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04 PORTABLE POWER STATIONS				
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04	GS-PX6 / GS-PX12 / GS-PX24 / GS-PX48	High-Power Mobile Power Stations, 6 – 48 kWh	6 – 48 kWh, up to 20 kW	26
05 ACCESSORIES & OTHERS				
05	GS-LFP12 Series	12.8 V LiFePO4 Batteries, 50 – 200 Ah	12.8 V, 50 – 200 Ah	28
05	GS-BMS & GS-Cloud	Battery Management System and Monitoring Platform	BMS + monitoring software	29
06 SOLAR PV SOLUTIONS & PROJECT CAPABILITY				
06	Distributed PV	Rooftop C&I, factory, carport and agri-PV systems	100 kW to 5 MW	30
06	Centralized PV	Ground-mounted utility-scale PV plants	Several hundred MW to multi-GW	31

Model names are GREEN & STRONG catalogue designations. Specifications are subject to change without notice; please confirm the final configuration with us when ordering.

01

Project Energy Storage Power Stations

Utility-scale containers, PV-storage-diesel hybrid systems, C&I outdoor cabinets, MV power skids and system control for grid-side, renewable and industrial projects.



IN THIS SECTION

GS-C5000L

5 MWh 20 ft Liquid-Cooled Battery Container

06

GS-HC Series

10 ft PV-Storage-Diesel Hybrid Container, 125 – 500 kW / 522 – 1044 kWh

07

GS-CI261L

125 kW / 261 kWh Liquid-Cooled C&I Outdoor Cabinet

08

GS-CI215L / GS-CI215A

100 kW / 215 kWh C&I Cabinets: Liquid-Cooled or Air-Cooled with PV Input

09

GS-SK5000S / GS-SK5000C

PCS & MV Step-Up Transformer Skid (String or Centralized)

10

GS-PCS430 / GS-PCS215 & GS-EMS

Grid-Forming String PCS and Energy Management System

11

GS-CI418HV

418 kWh 1500 V Liquid-Cooled Battery Cabinet

12

GS-CI-i Series

Immersion-Cooled All-in-One C&I Cabinets, 215 – 261 kWh

13

GS-C5000L

5 MWh 20 ft Liquid-Cooled Battery Container



OVERVIEW

A 20 ft outdoor liquid-cooled battery container delivering 5.016 MWh from LFP 3.2 V / 314 Ah cells. Twelve 1P416S battery clusters, each built from four 1P104S packs, give a rated voltage of 1331.2 V. Aerosol and water-spray fire suppression and C4 anti-corrosion protection are included.

KEY APPLICATIONS

- Utility-scale and grid-side storage
- Renewable energy firming

TECHNICAL SPECIFICATIONS

Parameter	GS-C5000L
BATTERY SYSTEM	
Cell type	LFP 3.2 V / 314 Ah
System configuration	1P416S × 12
Rated energy	5.016 MWh
Rated voltage	1331.2 V
Voltage range	1164.8 – 1476.8 V
Charge / discharge rate	0.5P
BATTERY PACK	
Cell	LFP 3.2 V / 314 Ah
Pack configuration	1P104S
Pack rated voltage	332.8 V
Pack voltage range	291.2 – 369.2 V
Pack charge / discharge rate	0.5P
GENERAL	
Auxiliary power	AC380V @ 50 Hz, AC220V @ 50 Hz (ATS)
Cooling	Liquid cooling (60 kW cooling capacity)
Fire suppression	Aerosol + water spray
Communication	Ethernet / RS485 / CAN
Ingress protection	IP54
Anti-corrosion	C4
Operating temperature	-20 to 55 °C
Humidity	5 – 95% RH, non-condensing
Altitude	2000 m (> 2000 m derate)
Dimensions (W × D × H)	6058 × 2438 × 2896 mm
Weight	43000 kg

GS-HC Series

10 ft PV-Storage-Diesel Hybrid Container, 125 – 500 kW / 522 – 1044 kWh



OVERVIEW

An integrated 10 ft container combining LFP battery storage, a hybrid inverter with PV MPPT input and a diesel-generator interface. It runs grid-connected or off-grid and switches in under 20 ms, which suits sites with weak grids, frequent load-shedding or diesel-only supply.

KEY APPLICATIONS

- Off-grid and weak-grid sites
- PV-storage-diesel microgrids
- Mining, islands and remote facilities
- C&I backup and diesel reduction

TECHNICAL SPECIFICATIONS

Model	GS-HC250-522	GS-HC375-783	GS-HC500-1044	GS-HC125-522	GS-HC250-1044
RATINGS					
Rated AC output	250 kW	375 kW	500 kW	125 kW	250 kW
Battery capacity	522 kWh	783 kWh	1044 kWh	522 kWh	1044 kWh
String formation	2P260S	3P260S	4P260S	2P260S	4P260S
C-rate	0.5C	0.5C	0.5C	0.25C	0.25C
PV max input	500 kW	750 kW	1000 kW	250 kW	500 kW
Generator input	250 kW	375 kW	500 kW	125 kW	250 kW
Weight (approx.)	7.5 t	9.5 t	11.5 t	7 t	11 t
BATTERY					
Cell / pack	LFP 314 Ah / 1P52S pack				
Rated voltage	832 V				
Voltage range	728 – 923 V				
PV, GRID & GENERATOR					
PV max voltage	1000 V				
PV rated / start voltage	400 V / 180 V				
MPPT voltage range	150 – 950 V				
Grid connection	3/N/PE, 230/400 V, 50/60 Hz				
Generator connection	3/N/PE, 230/400 V				
On/off-grid switching	< 20 ms				
GENERAL					
Cooling	Battery: liquid; hybrid inverter: air				
Ingress protection	IP54 / IP55				
Operating temperature	-20 to 55 °C				
Humidity	5 – 95% RH				
Altitude	≤ 3000 m (derating above 2000 m)				
Fire protection	Temperature + smoke + combustible-gas detection, ventilation, aerosol + water spray				
Communication	Ethernet / CAN / RS485				
Dimensions (W × D × H)	2991 × 2438 × 2896 mm (single battery compartment)				

GS-CI261L

125 kW / 261 kWh Liquid-Cooled C&I Outdoor Cabinet



OVERVIEW

An all-in-one outdoor cabinet that integrates the LFP battery, power conversion, liquid thermal management, fire protection and communications in a single enclosure. Rated 125 kW / 261 kWh for commercial and industrial sites.

KEY APPLICATIONS

- Commercial buildings and industrial parks
- PV-storage-charging stations
- Factory capacity expansion

TECHNICAL SPECIFICATIONS

Parameter	GS-CI261L
BATTERY	
Cell type	LFP 3.2 V / 314 Ah
Battery pack	1P52S / 52.25 kWh
Rated energy	261.2 kWh
Rated voltage	832 V
Voltage range	728 – 936 V
Depth of discharge	100% max / 90% recommended
C-rate	≤ 0.5P
Cycle life	8000
AC SIDE	
Rated power	125 kW (max 137.5 kW)
Grid	400 V (-15% to +15%), 50/60 Hz, 3P3W / 3P4W
Power factor	-1(leading) to 1(lagging)
THD	< 3%
Switching time	< 100 ms
Efficiency	> 88%
Isolation	Non-isolated
GENERAL	
Cooling	Liquid cooling
Fire protection	Fire control host + multi-sensor detection + perfluorohexanone; water (optional)
Ingress protection	IP54
Operating temperature	-20 to 50 °C (derating above 45 °C)
Storage temperature	-30 to 60 °C
Altitude	≤ 3000 m
Noise	< 80 dB
Communication	RS485 / Ethernet / CAN, Modbus RTU/TCP
Cable entry	Bottom in / bottom out
Dimensions (W × D × H)	1480 × 1350 × 2205 mm
Weight	2800 kg
Design life	15 years

GS-CI215L / GS-CI215A

100 kW / 215 kWh C&I Cabinets: Liquid-Cooled or Air-Cooled with PV Input



Shown: GS-CI215A

OVERVIEW

Two 100 kW / 215 kWh outdoor cabinet versions based on 280 Ah LFP cells: GS-CI215L with liquid cooling, and GS-CI215A with air-conditioner cooling and a built-in two-MPPT PV input for direct solar coupling.

KEY APPLICATIONS

- Commercial and industrial sites
- C&I sites with on-site PV (GS-CI215A)

TECHNICAL SPECIFICATIONS

Model	GS-CI215L (liquid)	GS-CI215A (air + PV)
BATTERY		
Cell type	LFP 3.2 V / 280 Ah	
Battery pack	1P48S / 43 kWh	1P20S / 17.9 kWh
System configuration	1P240S (5 × 1P48S)	1P240S (12 × 1P20S)
Rated energy	215.04 kWh	
Rated voltage	768 V	
Voltage range	672 – 864 V	696 – 852 V
Depth of discharge	100% max / 90% recommended	–
C-rate	≤ 0.5P	–
Cycle life	8000	
AC & PV		
Rated power	100 kW (max 110 kW)	
Grid	400 V (-15% to +10%), 50/60 Hz, 3P3W / 3P4W	400 Vac (-15% to +10%), 50/60 Hz, 3P4W
PV input	–	150 – 850 V, MPPT 320 – 800 V, 2 MPPT, 32 A / 32 A
Power factor	-1 (leading) to 1 (lagging)	–
THD	< 3%	–
Switching time	< 100 ms	
Efficiency	> 88%	> 85%
GENERAL		
Cooling	Liquid cooling	Air conditioner
Fire protection	Fire control host + multi-sensor + perfluorohexanone; water(optional)	–
Ingress protection	IP54	
Operating temperature	-20 to 50 °C (derating above 45 °C)	–
Altitude	≤ 3000 m	–
Noise	< 75 dB	75 dB
Communication	RS485 / Ethernet / CAN, Modbus RTU/TCP	
Dimensions (W × D × H)	1400 × 1360 × 2200 mm	1740 × 1200 × 2205 mm
Weight	2500 kg	2600 kg

GS-SK5000S / GS-SK5000C

PCS & MV Step-Up Transformer Skid (String or Centralized)



Illustration: string-type skid

OVERVIEW

A pre-integrated power conversion and medium-voltage step-up skid that connects utility battery blocks to a 6 – 35 kV grid. Available with string-type PCS (24 × 215 kW) or centralized PCS (4 × 1250 kW), and with a dry-type or oil-immersed transformer.

KEY APPLICATIONS

- Grid connection of utility-scale BESS
- Pairing with GS-C5000L battery containers
- Renewable plant storage at medium voltage

TECHNICAL SPECIFICATIONS

Model	GS-SK5000S (string)	GS-SK5000C (centralized)
PCS		
PCS type	String type	Centralized
PCS rated voltage	690 V	
PCS rated power	24 × 215 kW	4 × 1250 kW
Accuracy	± 2%	± 1%
Power factor	> 0.99	
Grid frequency	50 Hz ± 5 Hz	
TRANSFORMER		
Transformer type	Dry-type / oil-immersed	
Voltage ratio	0.69 / (6 – 35) kV	
Vector group	Dy11	
GENERAL		
Dimensions	7620 × 2438 × 2896 mm (PCS + step-up skid); 6058 × 2438 × 2896 mm (step-up transformer unit)	
Ingress protection	IP54	

GS-PCS430 / GS-PCS215 & GS-EMS

Grid-Forming String PCS and Energy Management System



String PCS

OVERVIEW

Modular string PCS units with grid-forming capability and SiC power devices, rated 430 kVA or 215 kVA, convert power between battery clusters and the grid. The GS-EMS energy management system supervises the site with closed-loop safety management, performance diagnosis and early warning.

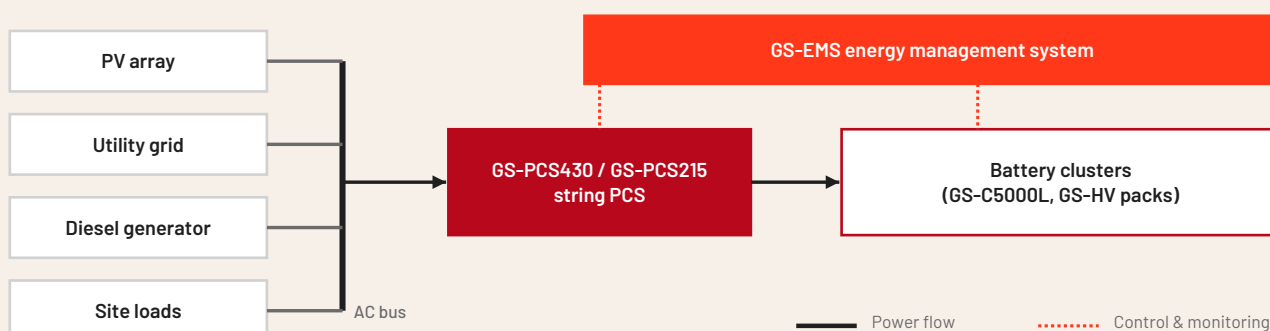
KEY APPLICATIONS

- Utility and C&I battery storage systems
- Grid-forming and weak-grid applications
- Site energy scheduling and condition monitoring

TECHNICAL SPECIFICATIONS

Model	GS-PCS430	GS-PCS215
STRING PCS		
Rated power	430 kVA	215 kVA
Topology	String PCS, grid-forming	
Power devices	SiC	
GS-EMS PERFORMANCE (MANUFACTURER DATA)		
Fault recognition rate	> 93%	
False alarm rate	< 0.1%	
Early warning time	Up to 50 days	
State assessment error	≤ 2%	
Life assessment error	≤ 6%	

TYPICAL SYSTEM ARCHITECTURE (SCHEMATIC)



GS-CI418HV

418 kWh 1500 V Liquid-Cooled Battery Cabinet



OVERVIEW

A high-voltage DC battery cabinet for distributed C&I and utility projects. 314 Ah LFP cells in a 1P416S string give 418 kWh at 1331.2 V, for use with an external PCS. Includes intelligent liquid cooling, cluster-level balancing and PACK-level fire detection with gas and water suppression.

KEY APPLICATIONS

- High-voltage C&I energy storage
- Distributed utility storage
- Projects with external string or central PCS

TECHNICAL SPECIFICATIONS

Parameter	GS-CI418HV
BATTERY	
Cell type	LFP 3.2 V / 314 Ah
System configuration	1P416S
Rated energy	418 kWh
Rated voltage	1331.2 VDC
Voltage range	1081.6 – 1497.6 VDC
C-rate	0.5C
Balancing	Cluster-level
GENERAL	
Cooling	Intelligent liquid cooling
Fire protection	PACK-level detection, gas + water
Communication	CAN2.0, Modbus-TCP, IEC61850
Ingress protection	IP55
Dimensions (L × W × H)	1350 × 1300 × 2300 mm
Weight	3 t

GS-CI-i Series

Immersion-Cooled All-in-One C&I Cabinets, 215 – 261 kWh



OVERVIEW

A premium all-in-one cabinet that uses PACK-level static immersion combined with cold-plate cooling for thermal management. Offered in three configurations from 100 kW / 215 kWh to 125 kW / 261 kWh with IP54 protection.

KEY APPLICATIONS

- Data centres
- Ultra-fast charging stations
- Mining sites

TECHNICAL SPECIFICATIONS

Model	GS-CI215i	GS-CI233i	GS-CI261i
RATINGS			
Cell type	LFP 3.2 V / 280 Ah	LFP 3.2 V / 280 Ah	LFP 3.2 V / 314 Ah
Battery pack	1P48S / 43.008 kWh	1P52S / 46.592 kWh	1P52S / 52.2496 kWh
System configuration	1P240S	1P260S	1P260S
Rated energy	215.04 kWh	232.96 kWh	261.248 kWh
Rated voltage	768 V	832 V	832 V
Voltage range	672 – 864 V	728 – 936 V	728 – 936 V
Rated power	100 kW (max 110 kW)	125 kW (max 137.5 kW)	125 kW (max 137.5 kW)
GENERAL			
Grid	400 Vac (-15% to +15%), 50/60 Hz		
Efficiency	> 90%		
Cycle life	8000		
Thermal management	PACK static immersion + cold plate		
Ingress protection	IP54		
Operating temperature	-20 to 50 °C		
Noise	< 80 dB		
Communication	CAN2.0 / RS485 / Ethernet		
Dimensions	1020 × 1400 × 2470 mm		
Weight	Approx. 2600 / 2700 kg (by configuration)		

02

High-Power Energy Storage Batteries

High-voltage liquid-cooled battery packs for system integration, large 51.2 V mobile battery packs and 48 V rack batteries.



IN THIS SECTION

GS-HV52L

52 kWh Liquid-Cooled Battery Pack (1P52S)

15**GS-HV104L**

104 kWh Liquid-Cooled Battery Pack (1P104S)

16**GS-LV Series**

51.2 V Movable Battery Packs, 15 – 32 kWh

17**GS-RK4.8**

48 V 100 Ah Server-Rack LFP Battery (4.8 kWh)

18

GS-HV52L

52 kWh Liquid-Cooled Battery Pack (1P52S)



OVERVIEW

A 52 kWh high-voltage battery pack with plate liquid cooling, built from 52 LFP 314 Ah cells in series. It is the standard building block for C&I cabinets and utility containers, with a manual service disconnect (MSD), quick-plug connections and CCS cell sampling.

KEY APPLICATIONS

- Building block for C&I cabinets
- Utility battery containers and racks
- System integrators and OEMs

TECHNICAL SPECIFICATIONS

Parameter	GS-HV52L
ELECTRICAL	
Cell type	LFP 3.2 V / 314 Ah
Configuration	1P52S
Rated energy	52.249 kWh
Rated voltage	166.4 V
Voltage range	145.6 – 187.2 V
C-rate	≤ 0.5P
Cycle life	8000 (≥ 70% EOL, 25 °C, 0.5P)
THERMAL & ENVIRONMENT	
Thermal management	Plate liquid cooling
Discharge temperature	-20 to 55 °C
Charge temperature	0 to 55 °C
Storage temperature	-30 to 60 °C
MECHANICAL	
Dimensions	1127 × 811 × 244 mm
Weight	Approx. 350 kg
Features	MSD with fast break, quick-plug connectors, CCS sampling

GS-HV104L

104 kWh Liquid-Cooled Battery Pack (1P104S)



OVERVIEW

A double-length liquid-cooled pack with 104 LFP 314 Ah cells in series, delivering 104.49 kWh per pack. Designed as a high-energy building block for utility battery containers.

KEY APPLICATIONS

- Utility container building block
- High-voltage battery racks
- System integrators and OEMs

TECHNICAL SPECIFICATIONS

Parameter	GS-HV104L
Cell type	LFP, 314 Ah
Configuration	1P104S
Rated energy	104.49 kWh
Rated voltage	322.8 V
Voltage range	291.2 – 374.4 V
Cooling	Liquid cooling
C-rate	0.5P (max 0.5P)

HV PACK COMPARISON

Model	GS-HV52L	GS-HV104L
Configuration	1P52S	1P104S
Cell capacity	314 Ah	314 Ah
Rated energy	52.249 kWh	104.49 kWh
Rated voltage	166.4 V	322.8 V
Voltage range	145.6 – 187.2 V	291.2 – 374.4 V
Cooling	Liquid cooling	Liquid cooling
C-rate	0.5P (max 0.5P)	0.5P (max 0.5P)
Typical use	C&I cabinets, utility containers	Utility container building block

GS-LV Series

51.2 V Movable Battery Packs, 15 – 32 kWh



OVERVIEW

Large 51.2 V LiFePO4 battery packs on castor wheels, from 15 kWh to 32 kWh. With 200 A discharge and 10 kW rated power they pair with 48 V inverters for backup power in large homes, small businesses and telecom sites.

KEY APPLICATIONS

- Large homes and small businesses
- Telecom and network backup
- 48 V inverter systems and load-shedding backup

TECHNICAL SPECIFICATIONS

Model	GS-LV15	GS-LV18	GS-LV26	GS-LV32
ELECTRICAL				
Capacity	300 Ah	346 Ah	519 Ah	628 Ah
Nominal energy	15,000 Wh	18,000 Wh	26,000 Wh	32,000 Wh
Nominal voltage	51.2 V			
Max charge current	150 A			
Max discharge current	200 A			
Rated power	10,000 W			
Charge / discharge cut-off	–	–	–	58.4 V / 44 V
Cycle life	–	–	Up to 10,000 cycles	6000 @ ≥ 90% DoD; 10,000 @ ≥ 80% DoD
Design life	–	–	15 years	–
INTERFACE & GENERAL				
Communication	RS485 / RS232 / CAN			
Parallel	Up to 6	Up to 6	Up to 6	–
Display	Touch LCD	Touch LCD	Touch LCD	–
Ingress protection	IP22			
Operating temperature	–	–	–	Charge 0 to 55 °C; discharge -20 to 55 °C
Altitude	–	–	–	≤ 4000 m
Dimensions	–	–	–	740 × 445 × 745 mm
Weight	129 kg	163 kg	175 kg	210 kg net / 238.5 kg gross

GS-RK4.8

48 V 100 Ah Server-Rack LFP Battery (4.8 kWh)



Shown: six modules in a rack

OVERVIEW

A rack-mounted battery module with prismatic LFP cells and an integrated 100 A BMS. Up to 16 modules can be connected in parallel for telecom base stations, server rooms and 48 V residential systems.

KEY APPLICATIONS

- Telecom base stations
- Server and network racks
- 48 V residential and solar systems

TECHNICAL SPECIFICATIONS

Parameter	GS-RK4.8
ELECTRICAL	
Nominal voltage / capacity	48 V / 100 Ah
Energy	4.8 kWh
Cell	Prismatic LFP 100 Ah, 15S1P
Internal resistance	≤ 50 mΩ
Self-discharge	≤ 3% per month
Charge	50 A standard / 100 A max, CC-CV, cut-off 54.75 V
Discharge	50 A standard / 100 A max, cut-off 39 V
BMS	100 A continuous, over-current protection 110 A / 30 ms
Parallel	Up to 16
LIFE & GENERAL	
Cycle life	> 10,000 (1C, 50% DoD, 25 °C)
Calendar life	> 10 years
Operating temperature	-20 to 60 °C
Communication	RS485, CAN, RS232
Ingress protection	IP20
Dimensions	480 × 476 × 133.5 mm (packed 510 × 505 × 295 mm)

SECTION

03

Residential Energy Storage

Wall-mounted and stackable home batteries, all-in-one stacked solar storage systems and hybrid inverters for homes, shops and small offices.



IN THIS SECTION

GS-W5 / GS-W10

Wall-Mounted LiFePO4 Home Batteries, 5 / 10 kWh

20

GS-S10 / GS-S15 / GS-S20

Stackable Home Batteries, 10 – 20 kWh

21

GS-A3.6 / GS-A6 / GS-A12

All-in-One Stacked Solar Storage Systems (Inverter + Battery)

22

GS-HI3.6 / GS-HI6P / GS-HI12

Hybrid Solar Inverters, 3.6 – 12 kW

23

GS-W5 / GS-W10

Wall-Mounted LiFePO₄ Home Batteries, 5 / 10 kWh



OVERVIEW

Slim wall-mounted 51.2 V LiFePO₄ batteries with a smart BMS and LCD display. Up to six units can be connected in parallel, and RS485 / CAN communication allows integration with compatible hybrid inverters.

KEY APPLICATIONS

- Home solar self-consumption
- Backup power during load-shedding
- Small shops and offices

TECHNICAL SPECIFICATIONS

Model	GS-W5	GS-W10
Energy	5120 Wh	10240 Wh
Capacity	102 Ah	206 Ah
Cell configuration	1P16S	
Voltage range	40 – 58.4 V	
Max current	100 A	200 A
Cycle life	6000 @ ≥ 90% DoD; 10,000 @ ≥ 80% DoD	
Parallel	Up to 6	
Communication	RS485, CAN, RS232, Bluetooth (smart BMS)	
Ingress protection	IP21	
Dimensions	601.5 × 400 × 155 mm	651.5 × 445 × 235 mm
Weight	45.5 kg	116.1 kg

GS-S10 / GS-S15 / GS-S20

Stackable Home Batteries, 10 – 20 kWh



Shown: GS-S20

OVERVIEW

A floor-standing stackable battery made of 5.12 kWh modules (51.2 V / 100 Ah) under a control unit with touch screen. Two, three or four modules give 10.24, 15.36 or 20.48 kWh with 5 kW output.

KEY APPLICATIONS

- Homes and apartments
- Small businesses
- Solar backup systems

TECHNICAL SPECIFICATIONS

Model	GS-S10	GS-S15	GS-S20
Battery modules	2	3	4
Module	51.2 V / 100 Ah, 5.12 kWh, 2.56 kW, 5000 cycles		
Capacity	51.2 V / 200 Ah	51.2 V / 300 Ah	51.2 V / 400 Ah
Energy	10.24 kWh	15.36 kWh	20.48 kWh
Power	5 kW (100 A rated, 200 A max)		
Communication	CAN / RS485 / RS232		
Display	Touch screen		
Dimensions	720 × 420 × 620 mm	720 × 420 × 800 mm	720 × 420 × 980 mm
Weight	90 kg	130 kg	170 kg
Ingress protection	IP20		
Cooling	Natural		
Installation	Floor-standing		

GS-A3.6 / GS-A6 / GS-A12

All-in-One Stacked Solar Storage Systems (Inverter + Battery)



OVERVIEW

Stacked systems that combine an off-grid hybrid inverter with LiFePO4 battery modules in one column. Capacity grows by adding modules, from 3.84 kWh (GS-A3.6) up to 61.44 kWh (GS-A12).

KEY APPLICATIONS

- Homes and apartments
- Shops and small offices
- Off-grid and backup power during load-shedding

TECHNICAL SPECIFICATIONS

Model	GS-A3.6	GS-A6	GS-A12
INVERTER			
Rated power	3.6 kVA / 3.6 kW	6 kW	12 kVA / 12 kW
PV input	5000 W max, 500 VDC, MPPT 60 – 500 V	–	2 × 5000 W, 500 VDC max, MPPT 60 – 500 V
Charge current	100 A	–	160 A PV / 120 A AC
AC output	220/230 VAC	–	220/230 VAC, 50/60 Hz, pure sine
Grid connection	Off-grid only	–	Not supported (off-grid)
Parallel	–	–	Up to 6
BATTERY			
Battery voltage	25.6 V (8S)	40 – 58.4 V	51.2 V
Module capacity	150 / 300 / 450 / 600 Ah	100 Ah / 100 Ah × 2 (1P16S)	300 / 600 / 900 / 1200 Ah
System energy	3840 / 7680 / 11520 / 15360 Wh	5120 / 10240 Wh	15360 / 30720 / 46080 / 61440 Wh
Battery current	100 A / 150 A	100 A max	100 A charge / 200 A discharge
Cycle life	–	6000 @ ≥ 90% DoD; 10,000 @ ≥ 80% DoD	6000 @ ≥ 90% DoD
Ingress protection	IP22	IP21	IP21
Communication	–	RS485, CAN, RS232	RS232 / RS485 / CAN
MECHANICAL			
Dimensions	Battery 450 × 420 × 180 (middle) / 450 × 420 × 260 (bottom); inverter 450 × 420 × 150 mm	Inverter 600 × 318 × 210; battery 600 × 430 × 210 mm	Battery 750 × 450 × 260 (middle) / 750 × 450 × 350 (bottom); inverter 750 × 450 × 180 mm
Weight	Battery 33 / 35 kg; inverter 12.3 kg	68.6 / 120.4 kg net	Battery 105.5 / 110 kg; inverter 25.3 kg

GS-HI3.6 / GS-HI6P / GS-HI12

Hybrid Solar Inverters, 3.6 – 12 kW



OVERVIEW

Wall-mounted hybrid inverters with built-in MPPT solar chargers and pure sine wave output. GS-HI3.6 runs on 24 V batteries; GS-HI6P and GS-HI12 run on 48 V. GS-HI6P supports optional on/off-grid operation and up to six units in parallel.

KEY APPLICATIONS

- Home solar and backup systems
- Shops and small offices
- Pairing with GS-W and GS-S batteries

TECHNICAL SPECIFICATIONS

Model	GS-HI3.6	GS-HI6P	GS-HI12
GENERAL			
Operating mode	Off-grid	On/off-grid (optional)	Off-grid
Rated power	3.6 kVA / 3.6 kW	6000 W (peak 12,400 VA)	12 kVA / 12 kW (2nd output 6 kW)
Battery voltage	24 VDC	48 VDC	48 V nominal
PV INPUT			
Max PV power	5000 W	6000 W	2 × 7500 W
Max PV voltage	500 VDC	–	500 VDC
MPPT range	60 – 500 V	120 – 500 V	60 – 500 V
PV current	18 A	20 A	2 × 22.5 A
Max charge current	100 A	120 A (100 A AC)	160 A PV / 120 A AC
Max discharge current	–	–	220 A
AC OUTPUT & INTERFACE			
AC output	220/230 VAC	220/230/240 VAC ± 5%, 50/60 Hz	220 – 240 VAC, 50/60 Hz, pure sine; surge 22,000 VA
Efficiency	96% / 93%	> 94%	96% PV-INV; 93% battery-INV
Transfer time	–	–	10 / 20 ms
Parallel	No	Yes, up to 6	No
Communication	–	BMS / RS232 / RS485 / CAN / USB / dry contact	RS232 / RS485 / dry contact; Wi-Fi optional
Ingress protection	IP21	–	IP21
Dimensions	456 × 299 × 111 mm	536 × 352 × 135 mm	–
Weight	5.5 kg	10.5 kg	14.5 kg
Altitude	–	≤ 1000 m	–

04

Portable Power Stations

Compact 220 V LiFePO4 power stations from 650 Wh to 2 kWh, and large mobile power stations from 6 to 48 kWh for sites, events and rental fleets.



IN THIS SECTION

GS-P650 / GS-P1000 / GS-P2000

Portable Power Stations, 650 – 2000 Wh (220 V)

25**GS-PX6 / GS-PX12 / GS-PX24 / GS-PX48**

High-Power Mobile Power Stations, 6 – 48 kWh

26

GS-P650 / GS-P1000 / GS-P2000

Portable Power Stations, 650 – 2000 Wh (220 V)



OVERVIEW

Metal-housed LiFePO₄ power stations with 220 Vac pure sine output, solar input and USB / Type-C ports. The built-in EPS switches over in under 50 ms to keep essential loads running during power cuts.

KEY APPLICATIONS

- Home backup during load-shedding
- Small shops and kiosks
- Camping and outdoor work

TECHNICAL SPECIFICATIONS

Model	GS-P650	GS-P1000	GS-P2000
Battery capacity	650 Wh	1000 Wh	2000 Wh
Battery type	LiFePO ₄		
Rated output	300 W	500 W	1000 W
AC output	220 Vac, pure sine wave		
AC input	90 – 280 V		
PV input	12 – 60 V, 250 W	12 – 60 V, 300 W	12 – 60 V, 550 W
Output ports	USB 2.0, Type-C PD 20 W		
UPS / EPS	< 50 ms		
Operating temperature	-10 to 40 °C		
Noise	< 50 dB		
Housing	Metal		
Dimensions	250 × 230 × 175 mm	275 × 190 × 246 mm	280 × 230 × 285 mm
Weight	8.45 kg	12.05 kg	18.5 kg

GS-PX6 / GS-PX12 / GS-PX24 / GS-PX48

High-Power Mobile Power Stations, 6 – 48 kWh



OVERVIEW

Large LiFePO₄ mobile power stations that replace portable diesel generators on site. Up to 20 kW continuous and 40 kW peak, with 220 V or 220 – 380 V output, electrode welding support and 4G + GPS remote lock via app. The 24 and 48 kWh models are mounted on an electric tricycle chassis.

KEY APPLICATIONS

- Construction sites
- Equipment rental fleets
- Events and outdoor works
- Diesel generator replacement

TECHNICAL SPECIFICATIONS

Model	GS-PX6	GS-PX12	GS-PX24	GS-PX48
ELECTRICAL				
Battery energy (LFP)	6028 Wh	12058 Wh	24115 Wh	48230 Wh
Rated output	4500 W	6000 W	20 kW	20 kW
Peak output	9 kW	12 kW	40 kW	40 kW
AC output	220 V	220 V	220 – 380 V	220 – 380 V
Output frequency	Auto 50/60 Hz			
AC input	90 – 264 VAC, 92% efficiency			
Charging time	2.5 h	5 h	5 h	7 h
Welding	Supports 2.5 / 3.2 / 4.0 mm electrodes			
BMS	Active equalization			
Remote functions	4G + GPS remote lock (app)			
Cycle life	> 4000			
GENERAL				
Ingress protection	IP53			
Cooling	Air			
Temperature	Rechargeable at -20 °C; discharge -20 to 55 °C			
Dimensions	490 × 380 × 540 mm	720 × 480 × 610 mm	1320 × 630 × 970 mm	1320 × 630 × 970 mm
Weight	57 kg	118 kg	280 kg	480 kg
Construction	Sheet metal, steel pull rod	Sheet metal, steel pull rod	On electric tricycle	On electric tricycle

05

Accessories & Others

12.8 V LiFePO₄ batteries for IPS, solar home systems and light electric vehicles, plus battery management and monitoring software.



IN THIS SECTION

GS-LFP12 Series

12.8 V LiFePO₄ Batteries, 50 – 200 Ah

28

GS-BMS & GS-Cloud

Battery Management System and Monitoring Platform

29

GS-LFP12 Series

12.8 V LiFePO4 Batteries, 50 – 200 Ah



OVERVIEW

Drop-in 12.8 V LiFePO4 replacements for lead-acid batteries, with built-in smart BMS, iron casing and IP55 protection. Rated for 6000 cycles, they suit IPS units, solar home systems and light electric vehicles.

KEY APPLICATIONS

- IPS / UPS home backup
- Solar home systems
- E-rickshaws, e-bikes and golf carts
- Lighting and small off-grid loads

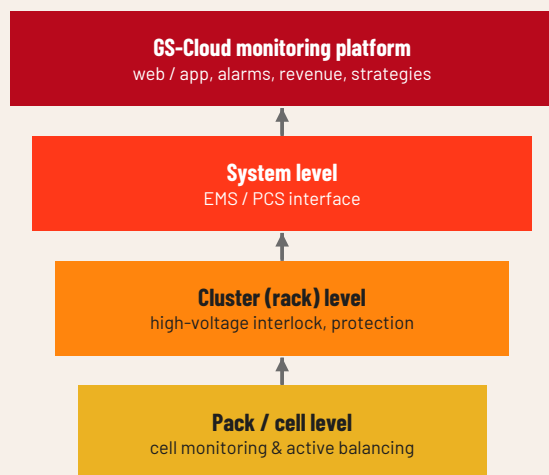
TECHNICAL SPECIFICATIONS

Model	GS-LFP12-50	GS-LFP12-100	GS-LFP12-150	GS-LFP12-200
Nominal voltage	12.8 V			
Capacity (0.5C)	50 Ah	100 Ah	150 Ah	200 Ah
Energy	640 Wh	1280 Wh	1920 Wh	2560 Wh
Cycle life	6000 (0.5C, to 80%)			
Charge voltage	14.0 – 14.6 V			
Standard charge current	10 A	20 A	30 A	40 A
Max charge current	25 A	50 A	75 A	100 A
Discharge current	50 A	100 A	150 A	200 A
Discharge cut-off	10.0 V			
Temperature	Charge 0 to 45 °C; discharge -20 to 60 °C			
Ingress protection	IP55			
Casing	Iron			
Dimensions	230 × 145 × 210 mm	340 × 185 × 220 mm	505 × 185 × 240 mm	525 × 240 × 220 mm
Weight	~4.5 kg	13.15 kg	16.2 kg	26.8 kg

GS-BMS & GS-Cloud

Battery Management System and Monitoring Platform

MULTI-LEVEL ARCHITECTURE (SCHEMATIC)



OVERVIEW

A multi-level battery management system with chip-level bidirectional active balancing and round-the-clock diagnosis, combined with a monitoring platform that shows station topology, device status, revenue statistics and alarms, and lets operators set control strategies.

KEY APPLICATIONS

- All GS energy storage systems
- C&I and utility project operation
- Remote monitoring and O&M

TECHNICAL SPECIFICATIONS

Parameter	Function
GS-BMS BATTERY MANAGEMENT	
Balancing	Chip-level bidirectional active balancing
Monitoring	Cell-level visual monitoring
Diagnosis	7 × 24 h real-time diagnosis and early warning
Protection	High-voltage interlock, three-level protection
Thermal control	Liquid-cooling temperature control
Key data response	≤ 20 ms
Data refresh	≤ 500 ms
GS-CLOUD MONITORING PLATFORM	
Project overview	Station topology, real-time data and communication data
Device monitoring	BMS, PCS, energy meters, load meters, air-conditioning
Revenue statistics	Tariff configuration; real-time, daily, monthly and yearly revenue
Control strategies	Peak-valley, backup, time-of-use and command modes
IoT management	Product, device, communication protocol and certificate configuration
Alarm management	Real-time and historical alarms; SMS / e-mail notification
Work orders	Dispatch of tasks to O&M staff

Distributed PV Solutions

Rooftop C&I, factory roofs, carports and agri-PV, with optional battery storage



REFERENCE INSTALLATION

OVERVIEW

Distributed PV generates power close to where it is used, on roofs, carports and farm structures. Systems are normally connected behind the meter for self-consumption, cutting grid purchases and daytime diesel use.

With battery storage, the same system also covers evening loads, outages and load-shedding. GREEN & STRONG coordinates PV, inverter and storage equipment as one package, from first assessment to handover.

KEY APPLICATIONS

- Factory and warehouse rooftops
- Commercial and public buildings
- Solar carports and parking areas
- Agri-PV and greenhouse roofs



REFERENCE INSTALLATION

GREEN & STRONG SCOPE OF SUPPLY

01

Assessment & design

Site survey, load analysis, system sizing and layout.

02

Equipment supply

PV modules, inverters, mounting and storage from one source.

03

Installation / EPC support

Technical support for installation, testing and commissioning.

04

PV + storage integration

Hybrid inverters, C&I cabinets and monitoring matched to the site.

TYPICAL CONFIGURATION

Parameter	Typical
Typical scale	100 kW to 5 MW
Operating modes	Grid-tied self-consumption, hybrid with storage, or off-grid
Mounting	Metal or concrete roofs, carport structures, greenhouse and farm structures
Storage pairing	GS-CI C&I cabinets (pp. 08–09, 13); GS-W / GS-S / GS-A home systems (pp. 20–22)
Inverters	GS-HI hybrid inverters (p. 23) for small sites; string PCS for C&I (p. 11)
Monitoring	GS-Cloud monitoring platform (p. 29)

Photos show reference installations for illustration only. Figures are typical ranges; each project is sized individually.

Centralized PV Power Plants

Ground-mounted utility-scale PV, with optional battery energy storage



REFERENCE INSTALLATION

OVERVIEW

Centralized PV plants are large ground-mounted arrays on open land, hillsides or degraded land, feeding power into the medium- or high-voltage grid through step-up substations.

Adding battery storage smooths plant output, shifts energy to evening peaks and helps meet grid-connection requirements. GREEN & STRONG supports developers and contractors with design input, equipment packages and storage integration.

KEY APPLICATIONS

- Utility-scale PV power plants
- PV on hillsides and complex terrain
- PV + storage plants for grid support
- Captive power for industrial parks and mines



REFERENCE INSTALLATION

GREEN & STRONG SCOPE OF SUPPLY

01

Layout & yield design

Array layout, yield estimate and electrical design input.

02

Equipment packages

PV modules, inverters, MV skids and battery containers.

03

Construction / EPC support

Technical support for construction, testing and commissioning.

04

Grid & storage integration

PCS, EMS and BESS sizing for grid-connection needs.

TYPICAL CONFIGURATION

Parameter	Typical
Typical scale	Several hundred MW to multi-GW ground-mounted plants
Mounting	Fixed-tilt or tracking structures
Grid connection	MV/HV connection via step-up transformer skids (GS-SK, p. 10)
Storage pairing	GS-C5000L battery containers (p. 06), GS-HC hybrid containers (p. 07)
Power conversion & control	GS-PCS string PCS and GS-EMS energy management (p. 11)
Monitoring	GS-EMS / GS-Cloud plant monitoring (pp. 11, 29)

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GREEN & STRONG

NEW ENERGY & ENERGY STORAGE SOLUTIONS

ADDRESS	Room 1, 36F, Building 1, China Guangfa Bank Building, 737 Jianshe Ave, Jiangnan Dis, Wuhan, Hubei, China
TEL / FAX	+86 27 8583 2465
EMAIL	zhaofor@163.com
WHATSAPP / WECHAT	+86 186 0271 5222
WEBSITE	www.greenstrongenergy.com

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