



GS ENERGY POWER

Product Catalog

| 2022

ENERGY SERVICE SOLUTIONS FOR YOU

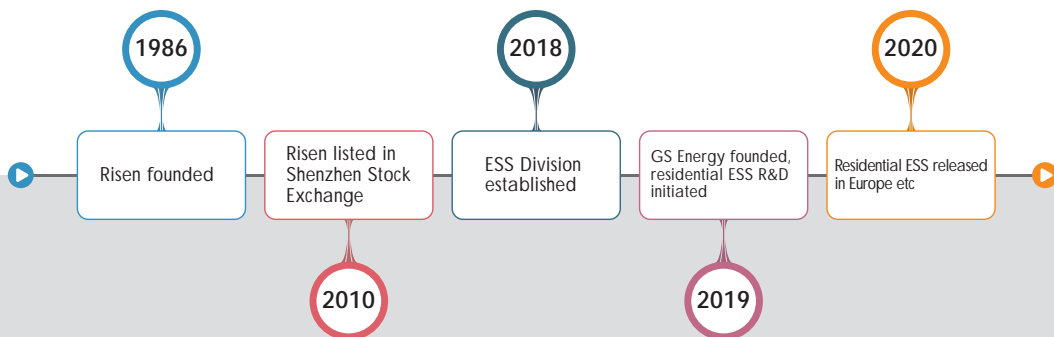
Continuously improve the energy structure with technological innovation and improve the quality of human life.

About Us

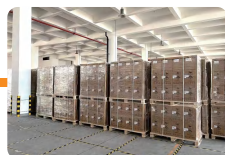
GS Energy (Ningbo) Power Technology Co., Ltd is a professional manufacturer of energy storage products. A team of experts in the industry work together to create smart products with high stability, high efficiency, low failure rate. We focus on providing advanced energy storage products and smart energy solutions for residential, industrial and commercial clients.

Founded in 1986, GS Energy is growing fast in these years. There is total 120 employees, among of them 25 persons working in R&D, 78 persons in manufacturing department.

As a professional Energy Storage System engineering manufacturing, GS Energy devote to provide you the custom-made, safe, favorable cost-efficient energy storage solutions and ready to be your reliable and knowledge partner you deserve.



Company View

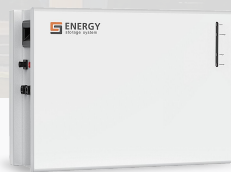




Titan-HV



GS-HV



GS-LV

Products Advantages



LiFePO4

Excellent safety
of cobalt free
LiFePO4 battery



Stackable

Easy installation
with modular and
stacked design



Warranty

10 Years performance
warranty



Safety

Safety certification
guarantee

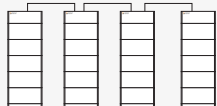
Products Capacity



Wide Usage



It can be easily to meet any home-users' application



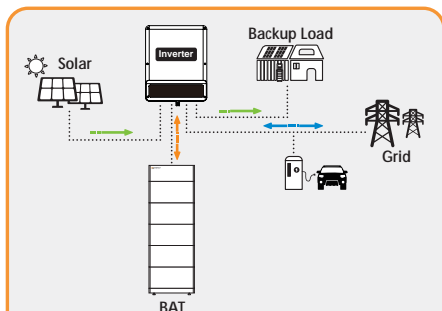
Flexible Capacity



It can be flexible to meet the growing requirements.

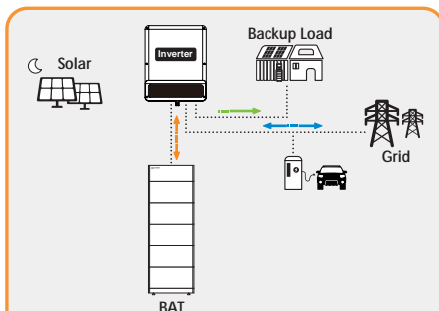
Application

1. On-grid (Daytime)



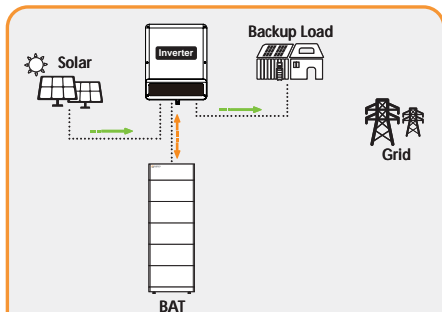
Save electricity from off-peak hours and surplus PV energy stored to batteries. After the batteries fully charged, overproduction can be sent to the grid.

2. On-grid (Evening)



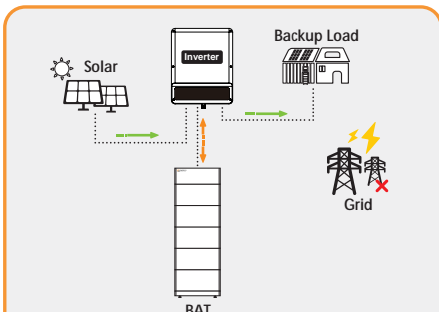
Supply yourself with your own solar power from batteries and grid at night. Batteries power is priority to use.

3. Off-grid



Thanks with combination with batteries, power yourself with self-production energy, independent from power supplier.

4. Back-up Power



The power stored in batteries will be used as back-up power, in the event of a power outage.

GS-HV Series

GS-HV-10.64 GS-HV-13.31 GS-HV-15.97
GS-HV-18.63 GS-HV-21.29



Emergency
Power Back-up



Flexible
Installation



Cost-
effective



Stackable



Peak Load
Shifting



TECHNICAL PARAMETERS

Model	GS-HV-10.64	GS-HV-13.31	GS-HV-15.97	GS-HV-18.63	GS-HV-21.29
Number of battery packs	4	5	6	7	8
Nominal voltage	204.8V	256V	307.2V	358.4V	409.6V
Nominal Energy	10.64kWh	13.31kWh	15.97kWh	18.63kWh	21.29kWh
Usable Energy (90% DOD)	9.58kWh	11.98kWh	14.37kWh	16.77kWh	19.16kWh
Dimensions (mm)	L535*W425*H755	L535*W425*H900	L535*W425*H1045	L535*W425*H1190	L535*W425*H1335
Weight	140Kg	170Kg	200Kg	230Kg	260Kg
Voltage range	166.4V~232.32V	208V~290.4V	249.6V~348.48V	291.2V~406.56V	332.8V~464.64V
Battery Technology	LiFePO4				
Protection class	IP54				
Cooling method	natural air cooling				
Maximum Continuous Charge / Discharge Current	50A				
Operating temperature	-10 ℃ ~ 50 ℃				
Environment humidity	≤95%RH (no condensation)				
Altitude conditions	≤2000m				
Certification	IEC61000, IEC62619				
Warranty	10 years				

Energy Storage System

Titan-HV Series

GS-HV-3.74 GS-HV-7.48 GS-HV-11.23
GS-HV-14.97 GS-HV-18.7



Modular Design and
Easy Installation



Flexible
Installation



IP65 Rated



Plug and Play

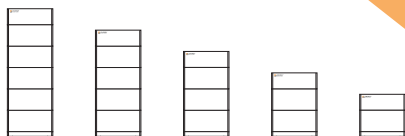


Safe and
Cost-Effective



Suitable for
Back-up Systems

GS Energy Titan-HV series is a high voltage, scalable battery storage module. It offers a 3.74kWh model that can be expanded in series with up to 5 batteries with 18.7kWh capacity. Easy installation with plug and play.



TECHNICAL PARAMETERS

Model	GS-HV-3.74	GS-HV-7.48	GS-HV-11.23	GS-HV-14.97	GS-HV-18.7
Electrical Parameters					
Nominal Energy ^①	3.74kWh	7.48kWh	11.23kWh	14.97kWh	18.7kWh
Usable Energy (90% DOD)	3.36kWh	6.73kWh	10.1kWh	13.47kWh	16.83kWh
Nominal Voltage	96V	192V	288V	384V	480V
Voltage Range	81~108V	162~216V	243~324V	324~432V	405~540V
Maximum Charge / Discharge Current ^②	30A/30A				
Depth of Discharge	90%				
Cooling	Natural				
General					
Battery Technology	LiFePO4				
Dimensions (H*W*D)	606 x 651 x 217mm	932 x 651 x 217mm	1258 x 651 x 217mm	1584 x 651 x 217mm	1910 x 651 x 217mm
Weight	49.5Kg	86.8Kg	124.1Kg	161.4Kg	198.7Kg
Number of Battery Units	1	2	3	4	5
Enclosure	IP65				
Type of Installation	Floor Stand / Indoor or Outdoor				
Operating Temperature Range ^③	-10℃ ~ +50℃				
Communication	CAN / RS485				
Cycle Life (90%DOD)	>6000 cycles				
Warranty ^④	10 Years				
Operating Altitude	≤ 2000m				
Certification					
Certificates	UN 38.3, EN / IEC 62619, IEC 62040				

- Nominal Energy:** Test conditions: 90%DOD,0.5C charge & discharge at +25℃.
- The recommended charging and discharging current is 20/30A.
- Ambient temperature charging(0 ~ 40℃), Discharging(-10 ~ +50℃).
- Conditions apply. Refer to GS ENERGY Warranty Policy.

GS-HV Series

GS-HV-11.98

GS-HV-15.97

GS-HV-19.96



Emergency
Power Back-up



Flexible
Installation



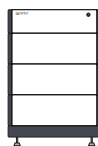
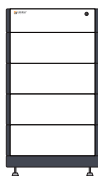
Cost-
effective



Stackable



Peak Load
Shifting



TECHNICAL PARAMETERS

Model	GS-HV-11.98	GS-HV-15.97	GS-HV-19.96
Number of battery packs	3	4	5
Nominal voltage	230.4V	307.2V	384V
Nominal Energy	11.98kWh	15.97kWh	19.96kWh
Usable Energy (90% DOD)	10.78kWh	14.37kWh	17.97kWh
Dimensions (mm)	L650*W345*H826	L650*W345*H1018	L650*W345*H1210
Weight	155Kg	200Kg	245Kg
Voltage range	187.2V~261.3V	249.6V~348.4V	312V~435.6V
Maximum Continuous Charge / Discharge Current	50A		
Battery Technology	LiFePO4		
Communication	CAN, RS485		
Protection class	IP54		
Operating temperature	0℃ ~ 55℃		
Cooling method	natural air cooling		
Environment humidity	≤95%RH (no condensation)		
Altitude conditions	≤2000m		
Certification	IEC61000, IEC62619		
Warranty	10 years		

GBL2.45K3



Emergency
Power Back-up



Flexible
Installation



Cost-
effective



Scalable



Peak Load
Shifting

TECHNICAL PARAMETERS

Model		GBL2.45K3(LFP)
Total energy (kWh)		2.45kWh
Usable energy (kWh)		2.2kWh
Nominal charge/discharge power		1.5kW
Peak power(Only discharge)		3kW for 3 seconds
Constant current(Only discharge)		40A
Nominal current		30A
Dimensions (W*H*D) (mm)		442*133*500
Weight (kg)		27.5kg
Max. charge voltage		57.6V
Max. recommended DOD		90%
Voltage range		48-55.4vd.c
Nominal voltage		51.2vd.c
Operating condition		Indoor
Max. transmission power		≤20dBm
WIFI frequency range		2400MHz~2438MHz
Operating temperature (C)	Charge	From 0~50 C
	Discharge	From -10~55 C
Humidity		20~60% (No condensed water)
Over voltage category		II
Cooling type		Natural cooling
Installation		Cabinet/Wall mounting
IP rating		IP 20
Protective class		I
Number of parallel connection		2~8(51.2V 4.9kWh~19.6kWh)
Number of series connection		2~8(102.4V~409.6V 4.9kWh~19.6kWh)
Warranty		10 Years Battery Warranty
Design life		>10 years
Communication		CAN/RS485
Protection mode		Triple hardware protection
Battery protection		Over-current/over-voltage/short circuit/under voltage/over temperature
Safety		Pack TUV(IEC 62619,IEC62040)
Transportation		UN 38.3

GBL5.1K3



Emergency
Power Back-up



Flexible
Installation



Cost-
effective



Scalable



Peak Load
Shifting

TECHNICAL PARAMETERS

Model		GBL5.1K3(LFP)
Total energy (kWh)		5.1kWh
Usable energy (kWh)		4.8kWh
Nominal charge/discharge power		3.0kW
Peak power(Only discharge)		6kW for 3 seconds
Constant current(Only discharge)		80A
Voltage range		48~56Vd.c
Nominal voltage		51.2Vd.c
Nominal current		60A
Max. charge voltage		57.6V
Max. recommended DOD		90%
Cells rated capacity		100Ah
Efficiency		>97%
Dimensions (W*H*D) (mm)		500*448*135mm
Weight (kg)		45kg
Operating condition		Indoor
Operating temperature (C)	Charge	From 0~50 C
	Discharge	From -10~55 C
WIFI frequency range		2400MHz~2483MHz
Humidity		<60% (No condensed water)
Over voltage category		II
Cooling type		Natural cooling
Case material		Metal
Color		Black
Installation		Wall mounting/Ground Installation
IP rating		IP 20
Protective class		I
Max. connection number		8S/4P
Warranty		10 Years
Design life		>15 years
Communication		CAN/RS485
Protection mode		Dual hardware protection
Battery protection		Over-current/over-voltage/short circuit/under voltage/over temperature
Safety	Cell UL 1973	
	CE	
Hazardous Material Classification		9
Transportation		UN 38.3

GBL5.8K3



Emergency
Power Back-up



Flexible
Installation



Cost-
effective



Scalable



Peak Load
Shifting

TECHNICAL PARAMETERS

Model	GBL5.8K3(LFP)
Total energy (kWh)	5.8kWh
Usable energy (kWh)	5.3kWh
Nominal charge/discharge power	2.75 kW
Peak power(Only discharge)	7kW for 5 seconds
Constant current(Only discharge)	100A
Maximum charge power	2.75kW
Maximum discharge power	2.75kW
Maximum charge current	57A
Maximum discharge current	57A
Fault current	Charge 100A >3s, Discharge 135A >3s
Voltage	42~54Vd.c
Nominal voltage	48Vd.c
Nominal current	57A
Max.charge voltage	54Vd.c
Weight (kg)	70kg
Dimensions (W*H*D) (mm)	650*480*256mm
Max. recommended DOD	90%
Operating condition	Indoor or outdoor
Operating temperature	From-10~50 C
Humidity	4~100% (No condensed water)
Pollution degree	3
Over voltage category	II
Cooling type	Natural cooling
Installation	Free standing/Wall mounting
IP rating	IP 65
Protective class	I
Max.number of parallel connection	4
Warranty	10 Years Battery Warranty
Design Life	>15 years
Communication	CAN/RS485

Grow your business together with GSENERGY!





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