

10Kw 51.2v

LifePo4

HOME4SOLAR

## Solar Battery LifePo4 Home Power Storage

- 10Kwh, 51.2Vdc, 200Ah Capacity
- 6500 times cycles, Grade A cells
- Support 16 Battery units 160kwh of power
- Matched to 16 brands of Hybrid Inverters
- Charge and Discharge rate of 150amps
- Wall Mounted bracket and cables

GSL ENERGY



Wall Mounting  
Bracket supplied



### Long Life and Safe

Vertical industry integration ensures more than 6500 cycles with 80% DoD. Safe Lithium iron phosphate battery cell.



### Intelligent

Each battery with independent BMS system manages power output smartly and effectively.



### Modularization

Modular design gives the end customers the power of choice of capacity Deliver up to 163KW with single max module (10.24KWh) at 16pcs parallel connection.



### Easy to install and use

Just plug and play to minimise the installation time and cost. Compact and fashionable design fits in your sweet home environment



### Advanced BMS (battery management system)

Build in intelligent BMS having protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.



### Quality Components

Raw Material & Process-- All products are made with Grade A LiFePO4 cells from Top Five brands, and meet UL standards.



### Compatibility

Compatible with most of the available Hybrid inverters



### Safety Cert

UL1642, IEC62619, CE, UN38.3, MSDS.

[www.home4solar.co.uk](http://www.home4solar.co.uk)

As the leading vertical integrated manufacturer of lithium iron phosphate battery systems GSL Energy has provided various battery solutions for nearly all kinds of ESS applications. Thanks to GLS self-developed core technology in cells and BMS (battery management systems) and overall system design. GSL Energy has delivered to more than 20+ countries and service 100,000 + user systems

## Battery Specifications

Nominal Parameters	
Voltage	51.2V
Capacity	200Ah
Energy	10.24 Kwh
Dimensions (Lx Wx H)	720 x 550 x 200mm
Weight	102.5kg / 225 lbs
Basic Parameters	
Battery Chemistry	LiFePO4
Battery Combination	16s 2P 32 cells total
Expected Life time (25 C)	15 years
Life cycles (80% DOD 25c)	6500 charge discharge cycles
Operation temperature	20 C to 60C @60+/-25% Relative Humidity
Storage temperature	0c to 45c @60+/-25% Relative Humidity
Lithium Battery Standard	UL1642, IEC62619, UN383, ROHS, CE-EMC
Enclosure protection rating	IP21
Electrical Parameters	
Operation Output Voltage	46-56 Vdc
Max Charging voltage	56Vdc
Usable Energy (kWh)	9.22
Max charging & discharge current	150A
Recommended Charging current	100A
Recommended Depth of Discharge	90%
Max Power	7680 Watts
Installation	Wall mounted with bracket.
Communications Port	CAN 2.0, RS485
Life Cycle Power During Warranty Period	44.8 MWh@80% EOL

## 10 Kwh Solar Battery Power Storage

### Delivering Stored Power when required.

GSL Battery systems have been deployed all around the world to enable captured solar to be used at a time of the users choosing especially at night, when there is no solar but either to be grid independent or only when absolutely necessary. In many of the countries the reliability of grid is not what we have become to rely on. In the midst of a global energy crises the ability to get low cost energy is another driving factor to the deployment of battery storage systems along side solar panels and inverters all working together to provide energy independence either from a reliability point of view or the ever increasing cost of grid energy.

### Application

Home ESS, Solar ESS, Solar off grid backup system, Solar Hybrid inverter UPS

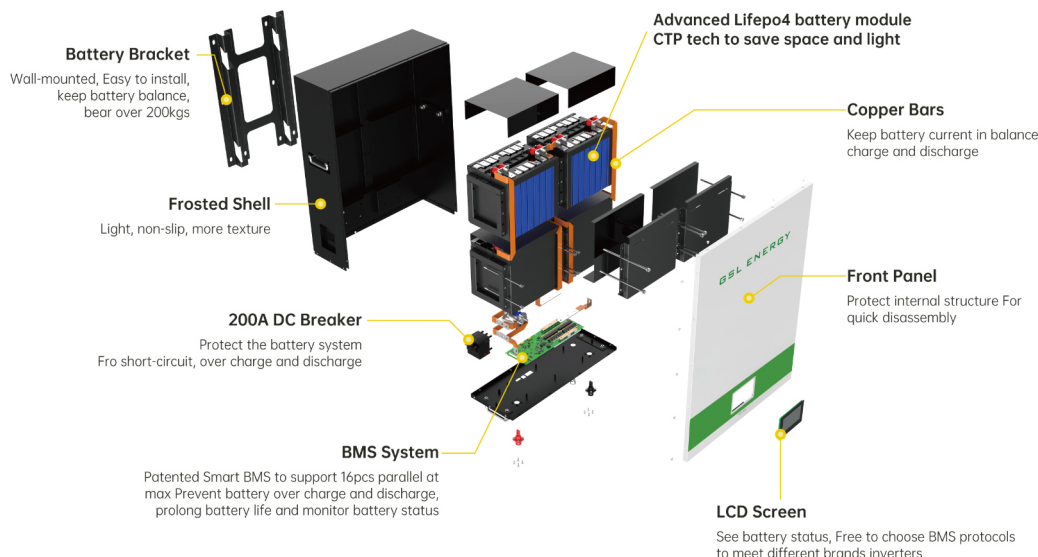
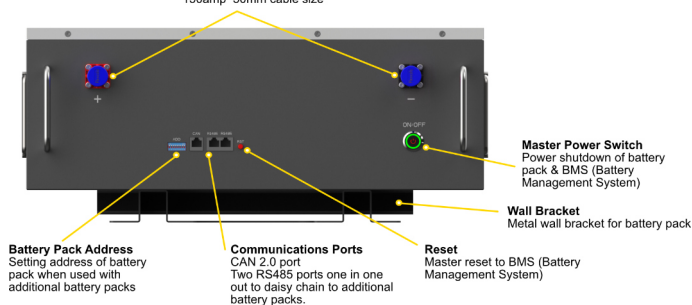
### Inverter compatibility

With a sophisticated BMS technique, GSL lithium batteries has a good performance in the compatibility with solar inverters by RS485, RS232 and CANbus. Now it can communicate with most of popular solar inverter brands in the global market, such as BlueSolar, Deye, Solis, Growatt, Voltronic, SMA, Victron and ,any others.



### Underside of Battery Pack

**Battery Connections**  
Clip-On Batter connections  
150amp 50mm cable size





GSL ENERGY Power Storage Wall lithium battery (LFP - lithium iron phosphate) is an environmental-friendly backup power system product. It is made of cathode materials, battery cell and BMS (battery management system) and processed by GSL's self-developed core technologies.

GSL ENERGY Power Storage Wall is the latest HESS (home battery storage system). It features high energy and power density, and of course a long lifespan. Its easiness of installation and expansion reflect the real requirements of the end users and strong technical capability of GSL. So far, it has served over 500,000 families world wide.



120 KWh

120Kw LifePo4

Installed May 2023

Dominican



20 KWh

20Kw LifePo4

Installed June 2023

Germany

GSL Energy is proudly contributing out strength in changing the way people generate, transfer and store electricity. As of 2022 their products have been commissioned in 138+ countries with more than 5.8 GWh of products of varying types. GSL produced the first battery packs in 2014 these were used in 35 .



140 KWh

140Kw LifePo4

Installed Feb 2023

Lebanon



30 KWh

30Kw LifePo4

Installed June 2022

Puerto Rico

GSL only use Grade-A LiFeP04 cells from top five brands in China like CATL, REPT and BYD. The cells were sold to China Tesla factory and other famous brand vehicle factory worldwide. GSL might not be the cheapest supplier, what we care about more is quality control and good service for long-term cooperation with our business partners.

In 2020 GLS Developed the 14.34 KW Power Storage Wall battery pack with a long life of 8500 charge cycles this is equivalent of a being charged once a day for 23.28 years.

Some of recent examples of installations from small 10kw single pack to large 140kwh system in Lebanon