



WHERE THERE IS SUN, THERE IS POWER.



# HIGH VOLTAGE CONTAINERIZED LITHIUM PHOSPHATE BATTERY ENERGY STORAGE SYSTEM

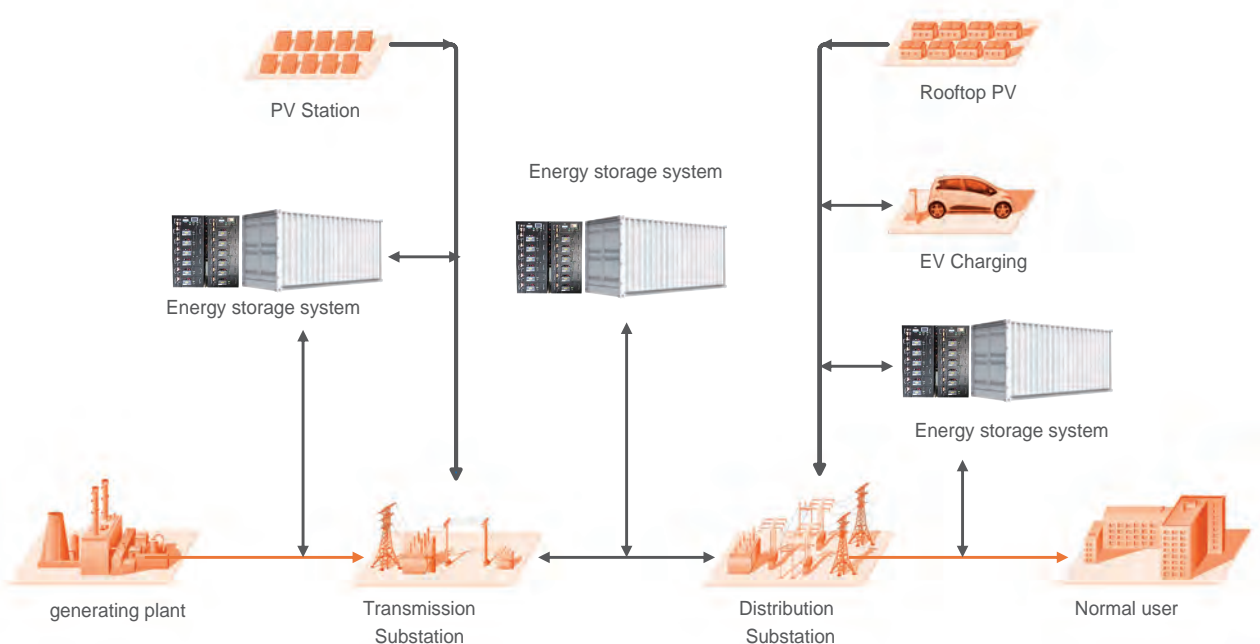
JIANGSU GSO NEW ENERGY TECHNOLOGY CO.,LTD

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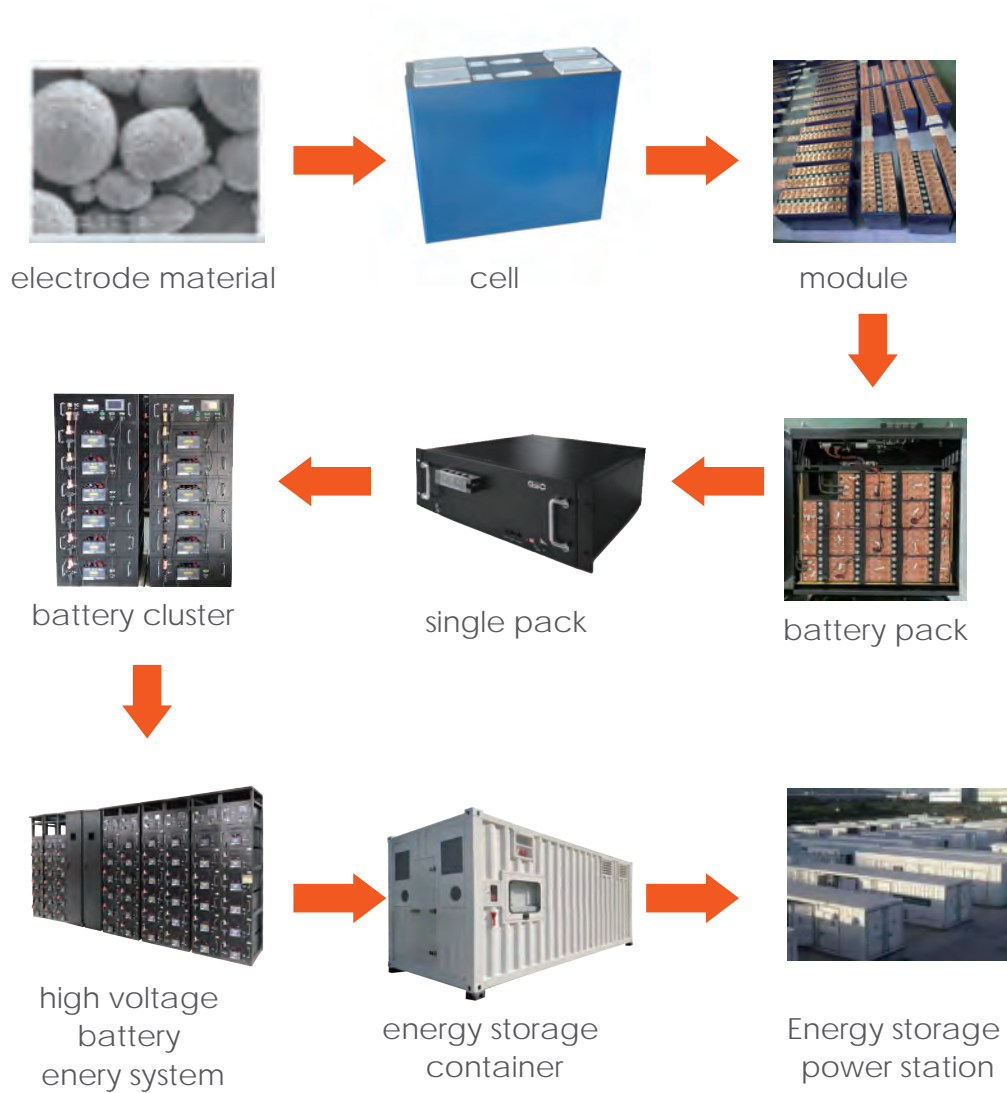
High voltage containerized lithium battery storage system is composed of high quality lithium iron phosphate core (series-parallel connection) , advanced BMS management system, power inverter supply and container. It can be used as independent DC power supply or as "basic unit" to form a variety of energy storage lithium battery power supply systems. It has high reliability and long life. Products developed for applications such as power grid energy storage, industrial and commercial energy storage, home high voltage energy storage, high voltage UPS, and data room.

The lithium battery product adopts modular design, higher integration, saving installation space; adopts high performance lithium iron phosphate cathode material, good core consistency, design service life of more than 10 years; one-key switch machine, front operation, front wiring, convenient installation and maintenance, easy operation; various functions, with single over-voltage / under-voltage, total voltage under-voltage / over-voltage, charge / discharge over-current, high temperature, low temperature, insulation and short circuit protection and recovery functions; strong compatibility, seamless docking with UPS, photovoltaic power generation and other main equipment; communication interface forms, CAN / RS 485 and so on can be customized according to customer needs, convenient system remote monitoring and flexible use.

## Application of ESS in electricity power sector:



## High-voltage Containerized Lithium Battery Energy Storage Production Chain



### Key features:

- 1, Vertical industry integration chain
- 2, Modular design with different density, suits all scenarios.
- 3, Flexible voltage range from 100VDC to 1000VDC.
- 4, Three levels management system design delivers highest reliability.
- 5, Rack mounted or container based system configuration

## High voltage energy storage system

### Powerhome-S Series 100-250VDC



Basic Parameters	Power Room-S1 (192V100AH) GBP192100	Power Room-S2 (192V200AH) GBP192200
Battery cell type	Lifepo4 (3.2 lithium iron Phosphate cell)	
Battery System Capacity(kWh)	20KWH	40KWH
Battery System Voltage(Vdc)	192V	192V
System Voltage Range(Vdc)	156~225	156~225
Efficiency	96%	96%
Depth of Discharge	90%	90%
Reference Dimension(D*W*H, mm)	530*550*1180	625*550*1600
Reference Weight(Kg)	280	560
Design Life	10+ Years	10+ Years
Operation Temperature (°C)	-20~65 C	-20~65 C
Communication	CAN/RS 485	CAN/RS 485
Warranty	6+ years	6+ years
Authentication Level	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Alarms	Overcharge/over-discharge/over-current/ over temperature/short circuit	
The above are regular product technical parameters, such as voltage, capacity can be customized.		

### Powerhome-M Series 250-600vdc



Basic Parameters	Powerhome-M1 (384V100AH) GBP384100	Powerhome-M2 (384V200AH) GBP384200
Battery cell type	Lifepo4(3.2 Prismatic cell)	
Battery System Capacity(kWh)	40KWH	80KWH
Battery System Voltage(Vdc)	384V	384V
System Voltage Range(Vdc)	312~450	312~450
Efficiency	96%	96%
Depth of Discharge	90%	90%
Reference Dimension(D*W*H, mm)	530*550*2020	(625* 550*1600)*2
Reference Weight(Kg)	500	1000
Design Life	10+ Years	10+ Years
Operation Temperature (°C)	-20~65 C	-20~65 C
Humidity	CAN/RS 485	CAN/RS 485
Altitude	6+ years	6+ years
Authentication Level	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Alarms	Overcharge/over-discharge/over-current/ over temperature/short circuit	
The above are regular product technical parameters, such as voltage, capacity can be customized.		

## High voltage energy storage system

Powerhome-  
L Series  
600-1000vdc



Basic Parameters	Powerhome-L1 (768V100AH) GBP768100	Powerhome-L2 (768V200AH) GBP768200
Battery System Capacity(kWh)	80KWH	160KWH
Battery System Voltage(Vdc)	768V	768V
System Voltage Range(Vdc)	648-876	648-876
Efficiency	96%	96%
Depth of Discharge	90%	90%
Dimension(D*W*H, mm)	500*1050*2100	500*2700*2100
Weight(Kg)	1100kg	2200kg
Design Life	10+ Years	10+ Years
Operation Temperature (°C)	-20~65 C	-20~65 C
Communication	CAN/RS 485	CAN/RS 485
Warranty	6+ years	6+ years
Authentication Level	CE/UN38.3/MSDS	CE/UN38.3/MSDS
Alarms	Overcharge/over-discharge/over-current/ over temperature/short circuit	

Power Room-  
10H



Basic Parameters	10ft High Voltage System Container
Container System Type	Powerhome-10H-M2*1
System Charge/Discharge Rate	0.2C~1C
System Voltage Range(Vdc)	384(336-438)
System Capacity (kWh)	80KWH
Container System Type	Powerhome-10H-M2*2
System Charge/Discharge Rate	0.2C~1C
System Voltage Range(Vdc)	384(336-438)
System Capacity (kWh)	160KWH
Container System Type	Powerhome-10H-M2*3
System Charge/Discharge Rate	0.2C~1C
System Voltage Range(Vdc)	384(336-438)
System Capacity (kWh)	240KWH

## High voltage energy storage system



### Powerhome- 20H/40H

Basic Parameters	20ft High Voltage System Container	40ft High Voltage System Container
Container System Type	Powerhome-20H-L1*5	Powerhome-40H-L2*5
System Charge/Discharge Rate	0.2C~1C	0.2C~1C
System Voltage Range(Vdc)	768(648-876)	768(648-876)
System Capacity (kWh)	400KWH	800KWH
Container System Type	Powerhome-20H-L1*10	Powerhome-40H-L2*10
System Charge/Discharge Rate	0.2C~1C	0.2C~1C
System Voltage Range(Vdc)	768(648-876)	768(648-876)
System Capacity (kWh)	800KWH	1600KWH
Communication	CANBUS/ModbusTCP/IP	CANBUS/ModbusTCP/IP

### Project case





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