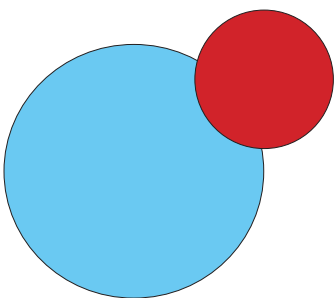
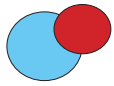


LITHIUM BATTERY SOLAR ENERGY STORAGE SYSTEM CATALOGUE 2024





Shanghai Pvsys New Energy Co.,Ltd is the professional manufacturer of solar panel,solar storage system in the market for more than 13 years.

With our newest technology of Topcon,HJT, our customers can get higher efficiency with best performance through the lifespan of the solar panel.

Our solar storage system is with built in solar hybrid inverter,mppt controller and LifePO4 battery with BMS(Battery Management System), it can be used in No-power areas and it also helps our cusotmer to save their energy bill.We are offering the customization of our solar system based on different needs from our customers. We blieve that "a suitable one for you!"

We have acquired the certificates of CE,IEC61215-1-1:2021,IEC61730-1:2018,IEC 61730-2:2018 and Fire safety Class.

With high quality solar products and best service,we have customers from Italy,Germany,Sweden,Spain,England,Dub ai,South Africa,New Zeland,Australian,Japan,Indonesia.etc more than 50 countries and areas.

We always seem "Quality is our life", without good quality,we can not go any further. We blieve with our effort,we will make the world better.



700KW in Japan



300KW in Japan



13KW in Japan



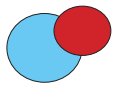
6KW in Tahiti



14.76KW in Sweden



39.6KW-15.12kWh in Iraq



PV&BATTERY ENERGY STORAGE INTEGRATED

Lithium Iron Phosphate Battery PSL Series



Product introduction:

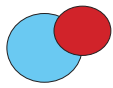
Lithium battery integrated machine, integrated lithium battery and photovoltaic inverter controller integrated machine, can realize photovoltaic and mains power supply mode, battery or bypass priority can be set, with multiple protections, such as input battery over-voltage protection, under-voltage protection, over-current protection, output under-voltage protection, over-current three-level protection (peak high current, RMS current, peak over-current soft start).

Built-in lithium battery can store excess power to meet the uninterrupted use of small outdoor equipment

Performance characteristics:

- Modular structure design, easy to assemble and maintain, and the volume is half of that of conventional lead-acid batteries
- Pure sine wave output, perfect protection function
- Optional fingerprint lock with anti-theft function
- High efficiency, low standby loss
- Standard 60A MPPT photovoltaic controller, optional 10A charger

Model	PSL-0.5/1KVA-2.5KWh	PSL VII-5KW
Input		
Rated mains input voltage(VAC)	230 Single phase	
Mains input voltage range(VAC)	170-280(Computer); 90-280(Household appliances)	
Mains input frequency range(Hz)	50/60	
Output		
Inverter output voltage(VAC)	230±5% Single phase	
Maximum efficiency	90%~93%(Peak)	94%(Peak)
Output waveform	Pure sine wave	
Switching time(ms)	10(Computer);20(Household appliances)	≤10
Peak	3:1	
Battery		
Battery type	Lithium iron phosphate	
Battery capacity(kWh)	2.5	10/20/30
Rated voltage(VDC)	48	
Charging voltage(VDC)	52.5	
Mains charging+photovoltaic charging		
Maximum photovoltaic power(KW)	3	6
MPPT range(VDC)	70-256	120-450
Maximum photovoltaic open circuit voltage(VDC)	256	500
Maximum PV charging current(A)	60	100
Maximum AC charging current(A)	10(Optional)	60
Appearance		
Dimensions(D*W*H)mm	210*510*695	301*693*(860/1325/1790)
Net weight(KG)	32	67/115/163
Communication interface	RS485	RS485 communication/mobile App(Wifi or GPRS)
Environment		
Humidity	0~95% No condensation	
Operating temperature(°C)	-10~40	
Storage temperature(°C)	-15~60	



LOW VOLTAGE SERIES LITHIUM BATTERY MODULE

GBP-L2 Power wall type lithium iron phosphate battery



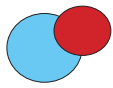
Product introduction:

The product adopts modular design, higher integration, saves installation space; adopts high-performance lithium iron phosphate positive electrode material, the battery cell has good consistency, and the designed service life is more than 10 years. One-key switch machine, front operation, front wiring, easy installation convenient maintenance and operation. Various functions, over-temperature alarm protection, over-charge and over-discharge protection, short-circuit protection, over-charge and over-discharge protection, short-circuit protection; strong compatibility, seamless connection with UPS.

Performance characteristics:

- Wall-hanging installation, save space
- Multiple in parallel, easy for expand, Automatic addressing, no need to dial a code
- Standard configuration with LCD display, real time knowing battery status, Screen direct selection of inverter communication
- Environmentally friendly non-polluting materials, free of heavy metals, green and environmentally friendly
- Standard cycle life is more than 5000 times
- Remote viewing of errors and online software upgrades

Model	GBP48V-100AH-W (optional 51.2V)	GBP48V-200AH-W(Optional 51.2V)
Nominal voltage (V)	48	
Nominal capacity (AH)	105	210
Nominal energy capacity(kWh)	5	10
Operating voltage range (V)	42-52.5	
Recommended charging voltage (V)	52.5	
Recommended discharge cut-off voltage (V)	45	
Standard charging current (A)	50	100
Maximum continuous charging current (A)	100	200
Standard discharge current (A)	50	100
Maximum discharge current (A)	100	200
Applicable temperature (°C)	-30 ~ 60 (Recommended 10~35)	
Humidity range (%rh)	0 ~ 95% No condensation	
Storage temperature (°C)	20 ~ 65 (Recommended 10~35)	
Protection level	IP20	
Cooling method	Natural air cooling	
Life cycles	5000+ times at 80% DOD	
Maximum size (D*W*H) mm	628*410*186	682*465*276
Weight (KG)	45.7	89.6



GBP-L SERIES WHEEL TYPE LIFEPO4 BATTERIES

Low-Voltage Series Lithium Battery Modeuls



Product introduction:

The produc adopts wheel design, beautiful shape, and convenient movement; including the mainstream market inverter protocol, directly communicates; adopts a comprehensive and multi-level battery protection strategy and fault isolation measures to ensure the safe operation of the system. Widely used in small commercial and family energy storage.

Performance characteristics:

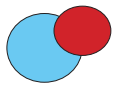
- Wheeled design, easy to move
- Embedded wiring, safe and reliable.
- Standard configuration with LCD display screen, understand battery status in real time and directly select the inverter communication protocol
- Environmentally friendly and pollution-free materials, no heavy metals, green and environmentally friendly.
- Standard cycle life over 5,000 times.

Product parameter:

Model	GBP48-300L	GBP51.2-300L	GBP48-600L	GBP51.2-600L
Nominal Volt (V)	48	51.2	48	51.2
Nominal capacity (Ah)	300	300	600	600
Working volt range (V)	42~54.75	44.8~58.4	42~54.75	44.8~58.4
Recommended charging volt (V)	51.75	55.2	51.75	55.2
Recommended discharging cut-off volt (V)	45	48	45	48
Standard charging current (A)	100	100	100	100
Maximum continuous charging current (A)	150	150	200	200
Standard discharging current (A)	100	100	100	100
Maximum discharging current (A)	150	150	200	200
Proper temperature (C)	-30~60 (Recommended 10~35)			
Allowable humidity range (%RH)	<85			
Storage temperature (C)	-20~65 (Recommended 10~35)			
Protection level	IP20			
Cooling method	Natural cooling			
Maximum size (D*W*H) mm	248*680*880		890*350*1060	
Net weight (kg)	144	147	295	300



Note: The above data is for reference and subject to change without prior notice.
 Communicate with engineers for special customization requirements.



LOW VOLTAGE SERIES LITHIUM BATTERY MODULE

GBP-L1 RACK Type Lithium Iron Phosphate Battery



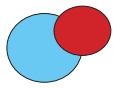
Product introduction:

This product is composed of high-quality lithium iron phosphate cells (by series and parallel) and advanced BMS management system. It can be used as an independent DC power supply or as a "basic unit" to form a variety of energy storage lithium battery power system. High reliability and longer life. It can be used as backup power supply of communication base station, backup power supply of digital center, household energy storage power supply, industrial energy storage power supply, etc. It can be seamlessly connected with main equipment such as UPS and photovoltaic power generation.

Performance characteristics:

- Small size and light weight
- Screen direct selection of inverter communication
- Standard cycle life is more than 5000 times
- Accurately estimate the state of charge of the battery pack, that is the remaining power of the battery, to ensure that the power of the battery pack is maintained within a reasonable range
- Multiple in parallel, easy for expand, Automatic addressing, no need to dial a code
- Easy for installation and maintenance

Model	GBP24V-200AH	GBP48V-100AH-R (optional 51.2V)	GBP48V-200AH-R(Optional 51.2V)
Nominal voltage (V)	25.6	48	
Nominal capacity (AH)	210	105	210
Nominal energy capacity(kWh)	5.3	5	10
Operating voltage range (V)	22.4-29.2	52.5	
Recommended charging voltage (V)	28		
Recommended discharge cut-off voltage (V)	24	45	
Standard charging current (A)	100	50	100
Maximum continuous charging current (A)	200	100	200
Standard discharge current (A)	100	50	100
Maximum discharge current (A)	200	100	200
Applicable temperature (°C)	-30 ~ 60 (Recommended 10 ~ 35)		
Humidity range (%rh)	0~95% no condensation		
Storage temperature (°C)	20 ~ 65 (Recommended 10 ~ 35)		
Protection level	IP20		
Cooling method	Natural air cooling		
Life cycles	5000+ times at 80% DOD		
Maximum size (D*W*H) mm	596*545*155	540*545*155	610*510*246
Weight (KG)	48	44.5	88.3



GHV1 SERIES HIGH VOLTAGE LITHIUM BATTERY STACK SYSTEM



Product introduction:

The product is mainly composed of high-quality lithium iron phosphate battery and smart energy storage inverter. When the sunlight is sufficient during the day, the excess power generation of the rooftop photovoltaic system is stored in the energy storage system, and the energy of the energy storage system is released at night to supply power for household loads, so as to achieve self-sufficiency in household energy management and greatly improve the economical performance of the new energy system. At the same time, in the event of sudden power outage/power failure of the power grid, the energy storage system can take over the electricity demand of the whole house in time. The capacity of a single battery is 5.32kWh, and the total capacity of the largest battery stack is 26.6kWh, providing a stable power supply for the family

Battery pack performance indicators

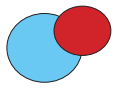
Performance	Item	Parameter	Remarks
Battery pack	Standard capacity (Ah)	52	25±2°C 0.5C, New battery state
	Rated working volt (V)	102.4	
	Power (kWh)	86.4 ~ 116.8	Temperature T>0°C, Theoretical value
	Packing size (D*W*H) mm	420*625*175	
	Weight (KG)	45	
	Self-discharging	≤3%/month	25, 50% SOC
	Battery pack internal resistance (mΩ)	19.2-38.4	New battery state 25°C±2°C
	Staticvoltage difference (mV)	30	25°C, 30% ≤ SOC ≤ 80%

GLV1 SERIES LOW-VOLTAGE LITHIUM BATTERY STACK SYSTEM



Product introduction:

This product is mainly composed of high-quality lithium iron phosphate battery module and intelligent PDU. When there is sufficient sunlight during the day, the excess power generated by the rooftop photovoltaic system will be stored in the energy storage system, and the energy from the battery is released at night to supply power for household loads, so as to achieve self-sufficiency in household energy management, the economy of the new energy system is greatly improved. At the same time, in case of sudden power outage/power failure of the power grid the energy storage system can take over the electricity demand of the whole house in time. With a single battery capacity of 5kWh/10kWh and a maximum stacked capacity of 20kWh/40kWh , the system can be used seamlessly with mains equipment such as photovoltaic power generation, as well as with a UPS to provide a table power supply for home.



MODULAR OUTDOOR INTEGRATED CABINET

PSO50-80/100-200 Modular outdoor integrated cabinet



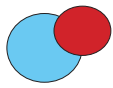
Product introduction:

The modular energy storage integrated cabinet can achieve efficient and safe design of building blocks from 100KWH small energy storage unit to MWH large-scale energy storage power station, solving the industry common problems such as low system safety, high parallel loss rate, short system life and so on existing in the traditional centralized energy storage solution, and defining a new solution for energy storage system integration.

Performance characteristics:

- Highly integrated. All in one, factory prefabricated design. Flexible deployment, plug and play
- Safe and efficient. High efficient neutral point clamped topological structure. Support EMS and BMS system linkage
- Intelligent and friendly. Programmable working mode, touch screen control. Support photovoltaic AC coupling, DC coupling access
- Grid friendly. Equipped with four-quadrant adjustment function for active and reactive power. Equipped with LVRT and HVRT functions

Model	PSO-50-80	PSO-100-200
Efficiency		
Maximum efficiency	95%	
Battery cluster parameters		
String formation method	8S	14/16S
Rated voltage (V)	768	672/768
Working voltage (V)	696-852	609-745.5/696-852
Rated capacity (kWh)	80	150-240
Support charging and discharging power	≤1C	
AC grid connection parameters		
Grid connection	3 phase 4 wires/ 3 phase 3 wires	
Rated output power (KW)	50	100
Maximum apparent power (KVA)	55	110
Grid voltage range (V)	400±15%	
Rated grid frequency (Hz)	50/60	
Maximum output current (A)	145	
Adjustable power factor	-0.99 ~ +0.99	
Maximum total current harmonic distortion rate	< 3	
AC off-grid parameters		
Rated output power (KW)	50	100
Maximum apparent power (KVA)	55	110
Rated output voltage (V)	400	
Rated grid frequency (Hz)	50/60	
Other parameters		
Working temperature range (°C)	-25 ~ +55	
Humidity (% RH)	0 ~ 95, non-condensing	
Altitude (m)	4000 (De-rating power from 2000)	
Cooling Type	Industrial air conditioning (battery storage)/Intelligent Air cooling (electrical storage)	
Display	10 inch display screen	
Communication	CAN/485/TCP IP	
Weight (KG)	2000	3600
Size (D*W*H) mm	900*1500*2300	900*2230*2300
Protection grade	IP54 (Key device IP65)	



LOW VOLTAGE SERIES LITHIUM BATTERY MODULE

GBP-L1 RACK Type Lithium Iron Phosphate Battery



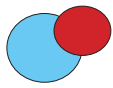
Product features:

- Equipped with a touchable screen to visually display the operating status of the battery pack
- Modular convenient installation
- Cycle life of over 5000 cycles
- With low power consumption mode, one-key restart is guaranteed within 5000 hours during standby, and data is retained
- Full life cycle fault and data recording, remote viewing of error reports, online software upgrades and GPS positioning.

Product advantage:

- Modular design, higher integration, saving installation space
- High-performance lithium iron phosphate cathode material, with good consistency of the core and a design life of more than 10 years
- One-touch switching, front operation, front wiring, ease of installation, maintenance and operation
- Various functions, over-temperature alarm protection, over-charge and over-discharge protection, short-circuit protection
- Highly compatible, seamlessly interfacing with mains equipment such as UPS and photovoltaic power generation, various forms of communication interfaces, CAN/RS485 etc. can be customized according to customer.
- Requirements, easy for remote monitoring. Flexible using range, can be used as a stand-alone DC power supply
- Specification of energy storage power supply systems and container energy storage systems

Model Number	GBP9650	GBP48100	GBP32150	GBP96100	GBP48200	GBP32300
Cell version (Ah)	52			105		
Nominal power(kWh)	5	5	5	10	10	10
Nominal capacity(Ah)	52	104	156	105	210	315
Operating voltage range (VDC)	96	48	32	96	48	32
Operating temperature(°C)	87-106.5	43.5-53.2	29-35.5	87-106.5	43.5-53.2	29-35.5
IP grade	IP21					
Reference weight (KG)	47.1			86.6		
Reference size (D*W*H) mm	630*475*162			640*510*252		
Note: Battery pack is used in a system, cycle life≥5000, under working condition of 25°C 80% DOD						



CONTAINER ENERGY STORAGE SYSTEM

20FT AND 40FT CONTAINERS

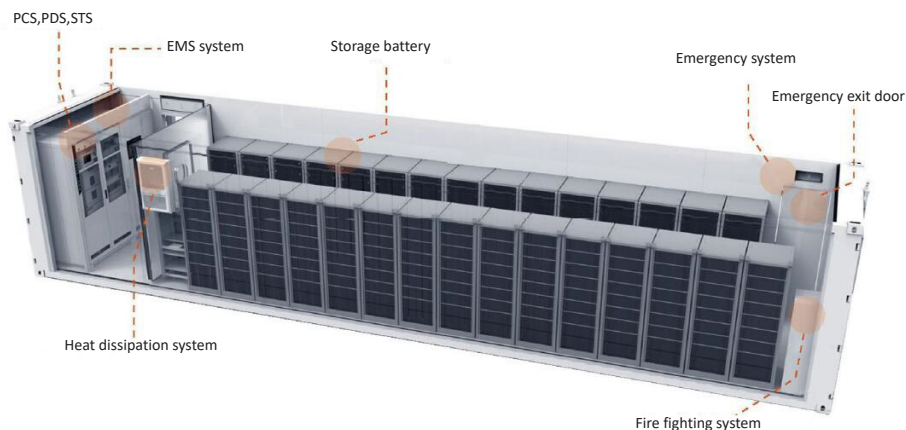


Product introduction:

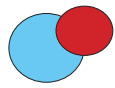
The containerized energy storage system includes :Battery management system (BMS), Power conversion system(PCS), Power distribution system(PDS), Micro-grid switching system(STS), Energy management system(EMS), and Auxiliary power distribution system, air conditioning system, fire protection system. It is widely used in scenarios such as power security, peak shaving and valley filling, new energy consumption and grid load smoothing.

Performance characteristics:

- Flexible configuration of battery system types and capacities according to customer requirements
- The PCS has a modular architecture, simple maintenance and flexible configuration, allowing for multiple parallel machines support parallel and off-grid operation mode, seamless switching
- Black start support
- EMS unattended system, locally controlled, cloud-monitored operation, with highly customized features
- Various modes including peak and valley reduction, demand response, backflow prevention, back-up power, command response, etc
- Complete gas fire extinguishing system and automatic fire monitoring and alarm system with audible and visual alarm and fault uploading
- Complete thermal and temperature control system to ensure that the battery compartment temperature is within the optimum operating range
- Access control system with remote control and local operation



Model	20ft	40ft
Output volt (V)	380/400 ±15%	
Gird frequency (Hz)	50/60 (±2.5)	
Output power (KW)	50-300	250-630
Battery capacity (kWh)	200-600	600-2000
LiFePO4		
Size (m)	Inside size (D*W*H) : 2.352*5.898*2.385 Outside size (D*W*H): 2.438*6.058*2.591	Inside size (D*W*H) : 2.352*12.032*2.385 Outside size (D*W*H) : 2.438*12.192*2.591
Protection level	IP54	
Humidity (% rh)	0-95	
Altitude (m)	3000	
Working temperature (°C)	-25 ~ 50	
Battery volt range (V)	500 -850	
Max. DC current (A)	500	1000
Connect method	3P 4W	
Power factor	-1 ~ 1	
Communication method	RS485, CAN, Ethernet	
Isolation method	Low frequency isolation with transformer	



Japan 700KW



Japan 300KW



Japan 224KW



Japan 76KW



Japan 13KW



Japan 100KW



Japan 250KW



Italy 900KW



Tahiti 6KW



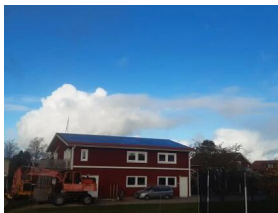
New Zealand 10KW



Sweden 14.76KW



Sweden 15.58KW



Sweden 15.99KW



Sweden 85.28KW



Iraq 39.6KW-15.12kWh



Indonesia 5KW-10.24kWh

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