

# JILiPOW

## Energy Storage Solution

Powering Energy for A New Era



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Energy Storage

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**About JILIPOW**

## 1.JILIPOW CO.,LTD

Add: 3/F, Building 2, Leaguer Zhongkai Innovation Park, Huizhou, China

## 2.US Branch Office and Warehouse

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# JILIPOW Group

JILIPOW

**JILIPOW CO., LTD.** is a lithium-ion battery manufacturer with headquarters in Huizhou and branch offices in New York State and Hungary.

Our engineering team specializes in LiFePO<sub>4</sub> batteries, including cylindrical, prismatic, and high-quality battery packs.

Our lithium battery packs are used across a variety of industries, including LSVs like golf carts, UTVs, ATVs, industrial equipment such as electric forklifts and cleaning machines, and fishing boats. We also provide energy storage system for residential, commercial, industrial and utility scale applications.

R&D Experience

**16<sup>+</sup>**

YEARS

Up To 10 Years Battery Life

**10<sup>+</sup>**

YEARS

5 Year Warranty

**5<sup>+</sup>**

YEARS

Cycle Life

**4000<sup>+</sup>**

CYCLE

# Our Journey

**JILIPOW**

In 2018, we built the JM factory to expand our capabilities with an ODM/OEM/OBM. Our products are used in IoT, Bluetooth, ESL, and smart devices, among others.

In 2021, we added the HZ factory with the same module to increase our potential. These products are typical for EVs, golf carts, and electrical forklifts. Additionally, JILIPOW is an EVE OEM.

In 2023, we established an office and warehouse in America.



JM Factory



HZ JILIPOW CO., LTD.



USA JILIPOW CO., LTD.



Vietnam  
JILIPOW CO., LTD.



Germany/France  
JILIPOW CO., LTD.



Looking forward to...



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**Commercial and Industrial  
Energy Storage**

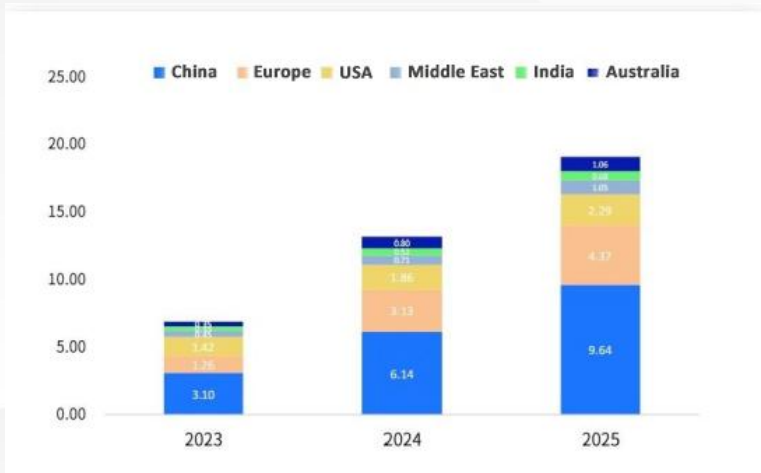
# 2.1 Market Size Forecast

The commercial and industrial scale is expected to grow significantly, with numerous companies joining the market.

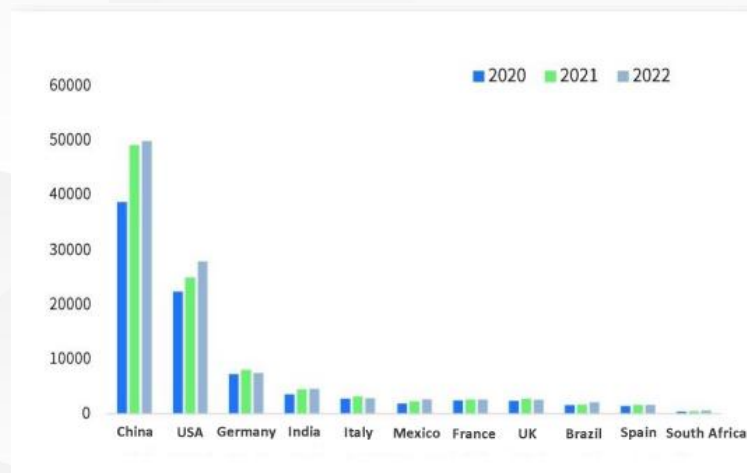
> **Current situation:** Since 2023, there have been more than **50,000** newly registered energy storage companies in China; in terms of installed capacity, from January to June 2023 alone, domestic user-side energy storage has added approximately **138 MW**, and its type is mainly industrial and commercial energy storage. ;

> **Scale forecast:** From 2023 to 2025, the scale of domestic industrial and commercial energy storage is expected to increase by **18.87 GWh**; the scale of foreign industrial and commercial energy storage is expected to increase by **26.32GWh**;

> **Key regions:** Mainly **China, Europe, the United States, and the Middle East**. The four regions together account for nearly **80%**, mainly stimulated by the industrial manufacturing industry.



Forecast of New Installed Scale of Commercial and Industrial Energy Storage (MWh), 2023-2035



Value added of industrial and commercial manufacturing by country, 2020-2022 (billions of dollars)

\*Data sources: official company websites, Energy Storage Market Department forecasts, *China Industrial and Commercial Energy Storage Development White Paper 2023*



## 2.2 Commercial and Industrial Energy Storage

### 2.2.1 Integrated Outdoor Battery Energy System



**System**

Specifications	JL-HVI-20.0
Rated Voltage	204.8V
Rated Energy	20.48kWh
Operating Voltage Range	179.2~230.4V
Maximum Continuous Charging/Discharging Current	100A
Weight	about 500kg
Dimensions (W* D * H)	800*600*1900mm
Extend	Supports up to 2 cluster battery cabinets for parallel operation
Protection Grade	IP55
Temperature Control Method	air-conditioning
Charging Ambient Temperature	0°C~55°C
Discharge Ambient Temperature	-20°C~55°C
Communication	CAN/RS485
Maximum Working Altitude	2000m
Cycle Life	6000 times (25 °C, 0.5C/0.5C, 90% DOD, EOL 70%)
Basic Protection Functions	Charging overvoltage, discharging under voltage, overcurrent, over temperature, short circuit protection, etc.
Package	Whole machine wooden box packaging
Installation Method	Hoisting and floor fixing

## 2.2 Commercial and Industrial Energy Storage

### 2.2.2 Outdoor Split Cabinet

DC side and AC side are set up separately, single cabinet can support 5-8 packs.

Capacity selection can be customized as needed.



**Outdoor Split Cabinet**

Specifications				
Cell Capacity	280Ah			
Formation	1P240S(5 pack)	1P288S(6pack)	1P336S(7pack)	1P384S(8 pack)
Nominal Voltage	768V	921.6V	1075.2V	1228.8V
Voltage Ranges	672V~864V	806.4V~1036.8V	940.8V~1209.6V	1075.2V~1382.4V
Nominal Power	215kWh	258kWh	301kWh	344kWh
Size (L*W*H)	1300mm×1300mm×2300mm			
Weight	2500kg(subject to actual situation)	2800kg(subject to actual situation)	3100kg(subject to actual situation)	3400kg(subject to actual situation)
IP Grade	IP66			
Cooling Method	liquid cooling			
Altitude	≤4000m(pollution grade II)			
Anti-corrosion Grade	C5H			
Fire-fighting Method	Pack -in-box fire protection (optional) + cabinet-level space fire protection			

## 2.2 Commercial and Industrial Energy Storage

### 2.2.3 Outdoor Integrated Cabinet

Integrating the "**All In One**" design concept, the battery cluster (5 packs), BMS, PCS, EMS, fire protection and thermal management systems are integrated into a single standardized cabinet.



**Outdoor Integrated Cabinet**

Specifications	
Cell Capacity	280Ah
Formation	1P240S(5 pack)
Nominal Voltage	DC768V
Voltage Ranges	DC 672~864V
Nominal Power	215kWh
Size (L*W*H)	1300mm×1300mm×2300mm
Weight	about 2700kg
IP Grade	IP65
Cooling Method	liquid cooling
Altitude	≤4000m(pollution grade II)
Anti-corrosion Grade	125KW(Maximum conversion efficiency 99%)
Fire-fighting Method	Three-phase four-wire
Cell Capacity	Pack-in-box fire protection + cabinet-level space fire protection

## 2.2 Commercial and Industrial Energy Storage

### 2.2.4 BR-8-1228.8-280-L Liquid Cooling Battery Rack

Pack



System



Specifications	BR-8-1228.8-280-L
Battery Packing Mode	1P384S
Rated Voltage	1228.8V
Weight	2700kg
Size (W*D*H)	862*1074*2374mm
Nominal Power	344kWh
Nominal Capacity	280Ah
Standard Charging Power/current	172KW/140A
IP Grade	IP54
Operating Temperature	Charging:0°C~55°C Discharging:-20°C~55°C
Cooling Method	liquid Cooling
Certification	CE, UN38.3, IEC62619; UL1973, UL9540A (design to meet standards)

### Safety

#### One-stop guarantee for product safety

##### - R&D and production

Our commitment to informatization, digitalization, and large-scale manufacturing ensures the highest standards of product safety.

##### - Product design

We prioritize safety at every level with intrinsic, passive, and structural safety features, offering layered control and comprehensive protection.

Our system supports operation at 4000m altitude, and other harsh environment.

### Cost Effectiveness

#### High-energy-efficient cells and multi-scenario application

##### - High energy efficiency battery cell

Long cycle life of  $\geq 8,000$  times and a high charge/discharge efficiency of over 94%.

##### - Multi-scenario system

Designed for diverse applications, features high protection level, corrosion resistance, and power configurations ranging from 215kWh to 3.44MWh.

### Flexibility

#### Standardized components, modular structure

##### - Customizable

Tailored made system with customized capacity and other options.

##### - Cabinet integration

Support multiple machines and cabinets

##### - Installation

Easy to install and transport.

## Application Scenarios

- Small factories
- Shopping malls and buildings
- Data centers, etc.



- EV charging station
- Industrial factories
- Construction site
- Power generation site, etc



- Grid
- Solar farm
- Urban microgrid
- Coastal areas, remote islands, community with poor grid.



## Effect

- Peak shaving, valley filling,
- Demand management

- Peak to valley spread
- Alternate mode
- Demand management
- Photovoltaic, wind energy consumption

- Energy time shift
- Improve electricity quality
- Photovoltaic, wind energy consumption

## Sore Point

- Tight space
- Unregulated site selection
- High power demand

- Densely populated
- High-current rapid charging, pressuring power grid and inconvenient expansion
- Insufficient land resources

- Old communities, poor grids,
- Small-scale power generation and distribution system, with diesel engine and wind power
- Unstable power distribution
- Difficulty in capacity expansion

## Requirement

- Safety
- Easy to transport and install
- IRR
- Durability and longevity
- Flexible power demand

- Safety
- Convenient expansion
- Flexible power distribution

- Smooth operation and maintenance (remote areas)
- Electricity consumption (new energy)
- Reduce cost when switching to renewable energy
- Stability

**Small-scale business**

**Commercial & Industrial areas**

**Utility-Scale**

Top requirement: **Strict safety requirements, systemized power distribution, flexible and convenient deployment**

# 2.4 Application Scenarios





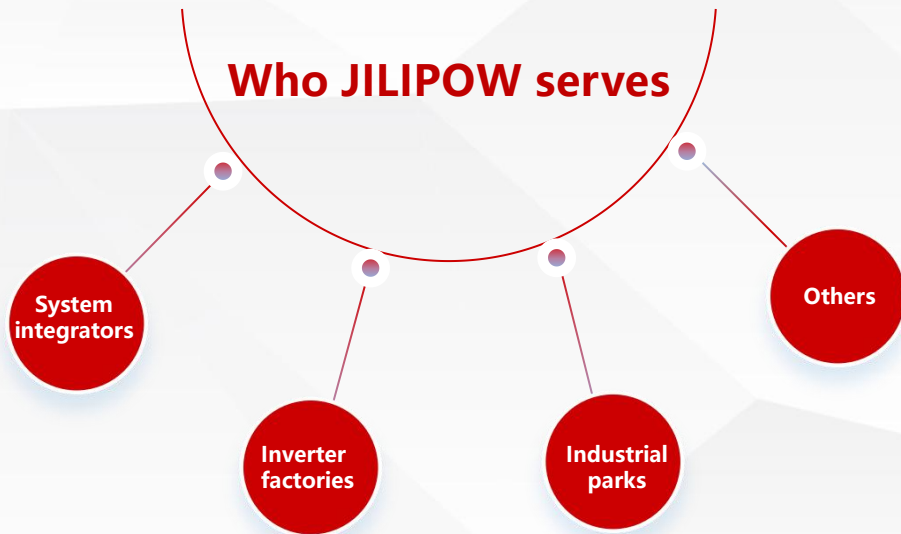
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## Household Energy Storage



## Who JILIPOW serves



We provide full-range solutions and services from energy storage cells to systems in household energy storage scenarios

### Cell and module suppliers

- Battery cells with long life cycles
- Extensive Modules

### ODM, OEM Service Provider

- High and low voltage packs
- Systemized solutions



Cell



Module



Pack



System

## 3.2 Household Storage Products

### 3.2.1 LF100LA Low Voltage Plug-in Box

Pack



System



Specifications	JL-LVI-15.0	JL-LVI-25.0
Battery Module	1P16S	
Rated Energy	5.12kWh	
Rated Voltage	51.2V	
Weight	43kg	
Size (W*D*H)	500*442*131mm	
Rated Energy	15.36kWh	25.6kWh
System Pack Quantity	3	5
Max.Charging/Discharging Current	100A/PACK	
Rated Voltage	51.2V	
Rated Capacity	300Ah	500Ah
Weight	129kg	215kg
Size (W*D*H)	600*600*1000mm(standard cabinet)	
DOD	90%	
Communication	RS485*2/CAN*2	
Humidity	≤70%(no condensation)	
IP Grade	IP20	
Cycle Life	≥5000 (used as per specification)	
Certification	CE, UN38.3, IEC62619; UL1973, UL9540A (design to meet standards)	
Matched Inverter	MEGAREVO/Goodwe/Growatt/PYLONTECH/Deye/Solis/SMA	

\* Rated capacity: Tested under 100% discharge depth of new battery, 25±2°C temperature range, 0.5C charge and discharge conditions.

\* It can support up to 15 Packs connected in parallel, totaling 76.8kWh.

## 3.2 Household Storage Products

### 3.2.2 LF100LA Wall Hanging Plug Box



Wall Mounted



Stand Mounted



Stacked Mounted

Specifications	JL-LVW-5.0
Battery Module	1P16S
Rated Energy	5.12kWh
Rated Voltage	51.2V
Weight	47kg
Size (W*D*H)	560*480*130mm
Rated Capacity	100Ah
Max.Charging/Discharging Current	100A
DOD	90%
Communication	RS485*2/CAN*2
Humidity	≤70%((no condensation))
IP Grade	IP20
Cycle Life	≥5000 (used as per specification)
Certification	CE, UN38.3, IEC62619; UL1973, UL9540A (design to meet standards)
Matched Inverter	MEGAREVO/Goodwe/Growatt/PYLONTECH/Deye/Solis/SMA

## 3.2 Household Storage Products

### 3.2.3 Base Station Power Communication Energy Storage



System

Specifications	JL 48200
Nominal Capacity	200Ah
Rated Voltage	48V
Standard Charging Current	20 A (0.1C)
Maximum Continuous Charging Current	100A 0.5C
Maximum Charging Current	150A( 0.75 C)
Charge Cutoff Voltage	55.5V
Maximum Discharge Current	150A
Charging Operating Temperature	0°C~55°C
Discharging Operating Temperature	-20°C~55°C
Size (L*W*H)	500*442*220mm
Weight	80kg
Application	outdoor edge stations, distributed base stations, micro-cell base stations, new energy sites etc.

## 3.2 Household Storage Products

### 3.2.4 LF100LA High Voltage Plug Box

Pack



System



Specifications	JL-HVI-25.0	JL-HVI-51.0
Battery Module	1P16S	
Rated Capacity	5.12kWh	
Rated Voltage	51.2V	
Weight	41kg	
Size (W*D*H)	420*442*131mm	
Rated Energy	25.6kWh	51.2kWh
System Pack Quantity	5	10
Maximum Charge/Discharge Current	100A	
Rated Voltage	100Ah	
Rated Capacity	256V	512V
Weight	200kg	400kg
Size (W*D*H)	600*600*2100mm	
DOC	90%	
Communication	Daisy chain*1/CAN*3	
Humidity	≤70%(no condensation)	
IP Grade	IP20	
Cycle Life	≥5000 (used as per specification)	
Certification	UN38.3, CE, IEC62619	
Matched Inverter	MEGAREVO/Goodwe/Growatt/PYLONTECH/Deye/Solis/SMA	

\* Rated capacity: Tested under 100% discharge depth of new battery, 25±2°C temperature range, 0.5C charge and discharge conditions.

\* Can support up to 12 Packs in series, totaling 61.44kWh.

## 3.2 Household Storage Products

### 3.2.5 High Voltage Battery Energy System



System

Specifications	JL-HVS-15.0	JL-HVS-25.0	JL-HVS-35.0
Battery Module	5.12kWh,51.2V (about 40kg)		
Number of Battery Module	3	5	7
Battery Capacity	15.36kWh	25.6kWh	35.84kWh
Rated Voltage	153.6V	256V	358.4V
Operating Voltage Range	134.4~172.8V	224~288V	320~403.2V
Weight	150kg	230kg	310kg
Dimension(H*W*D)mm	850*580*450	1050*580*450	1250*580*450
Standard Charge and Discharge Current	50A/50A		
Max Standard Charge and Discharge Current	100Ah		
Communication	CAN*2		
Protection Degree	IP65		
Installation location	Ground-Mounted		
Operating Temperature	-20°C~55°C		
Certification	UN38.3,IEC62619,CE (Design meets standards)		
Cycle life	≥6000 (25±2°C/0.5C/0.5C/80%DOD/EOL=70%)		

\*The effect drawing is for reference only, and the actual product shall prevail

# 3.3 Product Advantages

- Lightweight design, <50kg
- Quick plug interface to prevent errors
- BMS automatic identification code (except for wall-mounted products)
- Reduce labor and installation time
- Compatible with mainstream inverters

## Quick Installation

- BMS stores over 10,000 items throughout its life cycle
- Adoption of air switch + disconnecter design (wall-mounted product)
- Real-time operational data to PCS
- Multiple security measures to ensure safe operation
- PCS can monitor product status in real time and reduce user risks

## Safety and Security

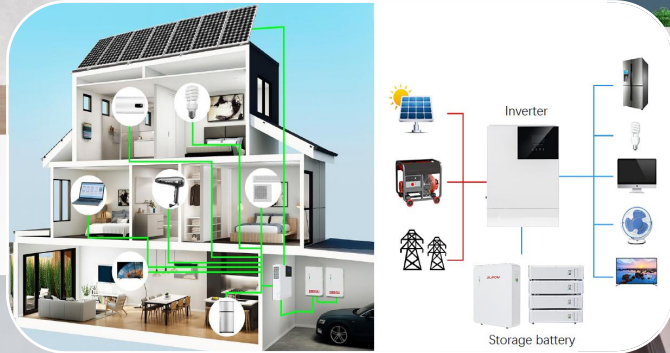
- Works at 20°C~60°C environment
- BMS storage: over 10000 items
- Minimum installation area of 0.08 square meters (wall-mounted products)
- Works at harsh environment

## High Adaptability

## Stable and Reliable

Strictly developed in accordance with energy storage safety grade standards, designed to meet **UN38.3**, **IEC62619** and **CE** certification

# 3.4 Application Scenarios





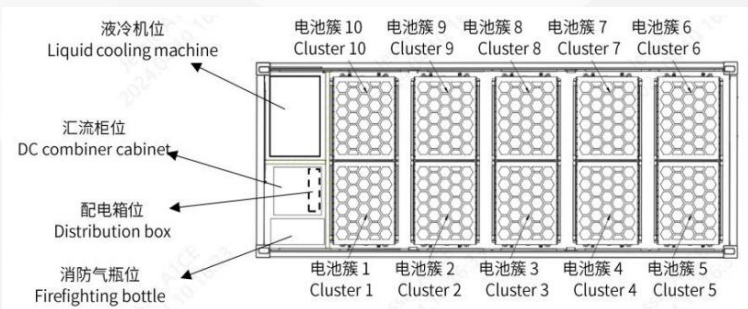


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## Utility-Scale Energy Storage

# 4.1 ESS Container



**20 Foot ESS Container**

20 Foot ESS Container		
Name	Specification	Quantity
Battery Cell	LFP 3.2V/280Ah	3840EA
Battery PACK (1P48S)	153.6V/43.008kWh	80EA
Battery Cluster (Including high voltage box)	1228.8V/344.064kWh	10EA
20 Foot Container	1228.8V/3.44MWh	1EA
BMS	Three-tier architecture BMS	1EA
Convergence Cabinet	5 sink 1	1EA
PCS	500KW	1EA
EMS	local monitoring	1EA
Air Conditioning System	7.5kW Precision Industrial Air Conditioner	2EA
Fire Fighting System	Heptafluoropropane fire extinguishing gas fire fighting system	1EA
Auxiliary Power System	Including UPS, circuit breaker, switching power supply, etc.	1EA
Wiring System	Including power cables and communication cables	1EA
Others	Lighting, grounding, etc.	1EA
Container	20 feet high cabinet (6058x2438x2896mm)	1EA

# 4.1 ESS Container



40ft air forced cooling container system



20ft liquid cooling container system

Item	Specification									
	ESS-1100/1100	ESS-800/1600	ESS-2200/2200	ESS-1600/3200	ESS-3440-2H-L	ESS-3440-1H-L	S430H201	S531H201	S556H401	
System Model	ESS-1100/1100	ESS-800/1600	ESS-2200/2200	ESS-1600/3200	ESS-3440-2H-L	ESS-3440-1H-L	S430H201	S531H201	S556H401	
Cell Model	LF90K	LF280K	LF90K	LF280K	LF280K	LF280K	MB30	MB31	MB56	
System Configuration	16P240S	8P225S	32P240S	16P225S	10P384S	10P384S	10P416S	12P416S	6P416S	
Rated Energy/kWh	1105	1612	2211	3225	3440	3440	4073	5015	5015	
Voltage Range/V	672~864	630~810	672~864	630~810	1075~1382	960-1401	1165 ~ 1498	1165~1498	1165-1498	
Standard Charging and Discharging Rate	≤0.5P	≤0.5P	≤0.5P	≤0.5P	≤0.5P	≤1P	≤0.5P	≤0.5P	≤0.25P	
Max.Charging and Discharging Rate	≤1P	≤0.5P	≤1P	≤0.5P	≤0.5P	≤1P	≤0.5P	≤0.5P	≤0.25P	
BMS Communication	CAN, RS485, LAN									
Thermal Management	AirForcedCooling					Liquid Cooling				
Dimension(D×W×H)/mm	20feet:2438×6058×2896		40feet:2438×12192×2896		2438×6058×2896			2550×6200×2896	2438×6058×2896	
Weight/t	25	30	40	50	~35	~35	~37	~44	~45	
Reconmended Environmental Temperature/°C	-20~55					-40~55				
Relative Humidity	5~95%(without condensation)									
Level of Protection	IP55									
Fire SuppressionSystem	HFC-227ea				Novec1230			Perfluoro+waterImmersion	Customization(gas fire suppression,waterimmersion, etc)	

## 4.2 Application Scenarios



## 4.3 Past Forums



# THANK YOU

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