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# Energy Storage Solutions

Make Energy Cleaner And More Efficient



# Content

Company Profile	03	Product Solutions	11
Development History	05	Product Line	13
Market layout	07	Project Case	15
Enterprise Qualification	08	Professional Services	47

# Company Profile

Founded in 2002, Huijue Group is an industry-leading technology company in the field of energy storage systems. An innovative company, committed to providing customers with the best energy storage system solutions and safe and efficient. A full range of energy storage products, covering household energy storage systems, industrial and commercial energy storage systems and site storage systems energy system.

Huijue Group is headquartered in Lingang New Area, Shanghai Free Trade Zone, with 6 wholly-owned subsidiaries. There are production bases and R&D centers in Jiangsu Hai'an and Shanghai Fengpu respectively, covering a total area of over 100,000 square meters, over 1,000 employees, 4 professional integrated production lines, and experienced technology. The team and efficient and complete supply chain system fully guarantee production capacity and contract performance capabilities. sales and the service outlets are all over the country, and the products are exported to many countries and regions around the world. Wisdom Energy solutions have been widely used in government, transportation, education, operators and other industries. Over the years, it has won various honorary certifications such as "High-tech Enterprise" and "Innovative Enterprise"



**6+**

Wholly owned subsidiaries

**20+**

Years of industry experience

**200+**

R&D staff

**300+**

Patent Certificate

**1000+**

Patent Certificate

**1.5+**

Billion Dollars

# Development History

**2002**

Founded Huijue Network in Shanghai

**2004**

Apply for the registration of "HuiJue" trademark

**2005**

The production plant in Fengxian, Shanghai was officially completed

**2006**

Shanghai Technology R&D Center was established, opening the mode of independent R&D and innovation

Self-owned brand products enter the radio and television and operator markets

Established more than 20 offices in China

**2009**

B2B cross-border trade through Alibaba

**2010**

Update the corporate VI design and apply for the registration of the "Huijue Network" trademark

**2011**

In response to the call for global new energy development, Huijue Group develops the energy industry and invests in the research and development of new energy products

**2016**

Established a wholly-owned subsidiary "Shanghai Huijie Technology Co., Ltd." to open up new areas of smart buildings

**2019**

Huijue Group officially enters into energy storage, establishing the development direction of household energy storage and distributed energy storage

**2023**

Huijue Group is oriented to the world, providing a full range of optical storage and charging products and solutions.

Established a wholly-owned subsidiary "Huizhou Huijue New Energy Technology Co., Ltd." to expand the new energy battery business from the energy storage field



# Agent&Partner

## (NORTH OF EUROPE OFFICE)

COMPANY:LYNXDATA CENTER SOLUTIONS  
ADDRESS:SJOMYRA 15682974 DELSBO,SWEDEN  
CONTACTER:MOHAMOUD



## (EAST OF EUROPE OFFICE)

KYIV, UKRAINE



## (UNITED KINGDOM OFFICE)

TIME TECHNOLOGY PARK, BLACKBURN RD  
SIMONSTONE, BURNLEY, BB52 8TY



## (JIANGSU NANTONG BASEMENT)

NO.26 HESHUN ROAD, HAIAN CITY,NANTONG  
JIANGSU PROVINCE

## (SHANGHAI FENGXIAN HEADQUATER)

NO.333,FENGUN ROAD, FENGXIAN DISTRICT  
SHANGHAI



## (MIDDLE OF EAST)

DUBAI, UAE



## (WEST OF AFRICA OFFICE)

COMPANY :YATTCO SARL  
DRESS:HAMDALAYE ACI 2030LMMEUBLE CAPITOLE  
IRANSIT RUE 305-PORTE 475BUREAU 4A-BP 1899  
ONTACTER: ALIOU



## (EAST OF AFRICA OFFICE)

MESA UTALII HOUSE, UTALII LANE, 5TH  
FLOORNAIROBI,P.O.BOX 48421-0100 NAIROBI



# Market Layout



**“2,000+ PROJECT CUSTOMERS”**

**1 400MWH+**  
Annual Energy Output

**100GW**  
Annual Capacity

**800GW**  
Shipped Products

# Enterprise Qualification

One of China Largest Energy Storage Equipment Manufacturer & Supplier

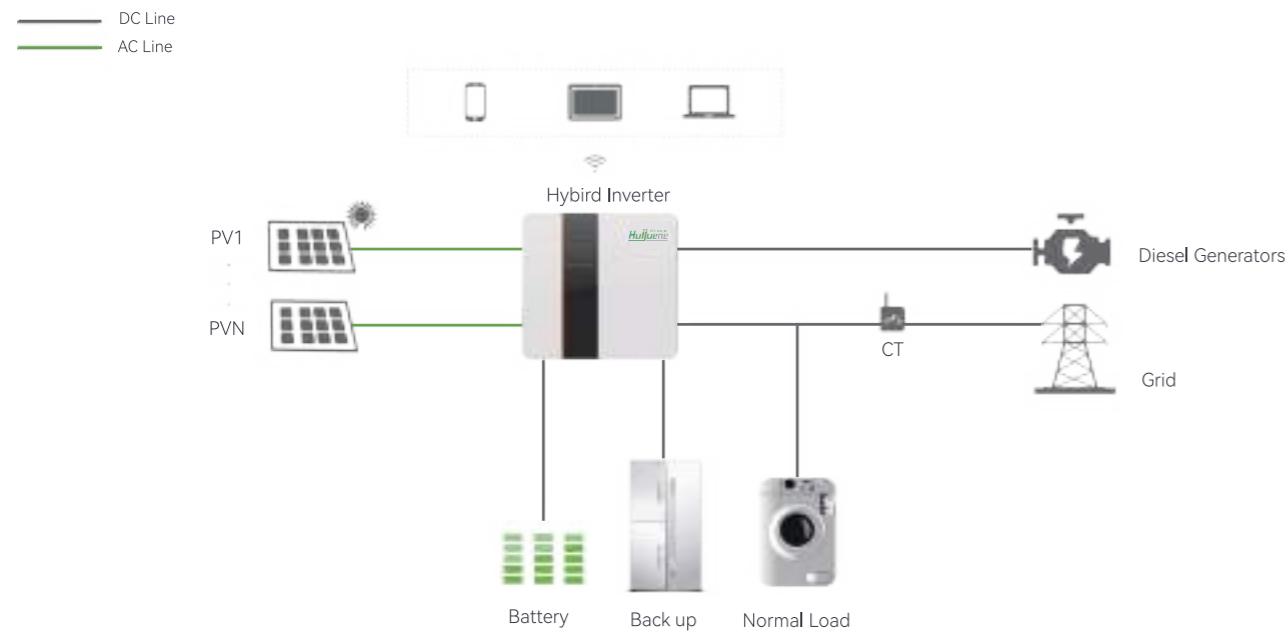
Your Trustworthy Partner in China

Professional Energy Storage Solutions Provider



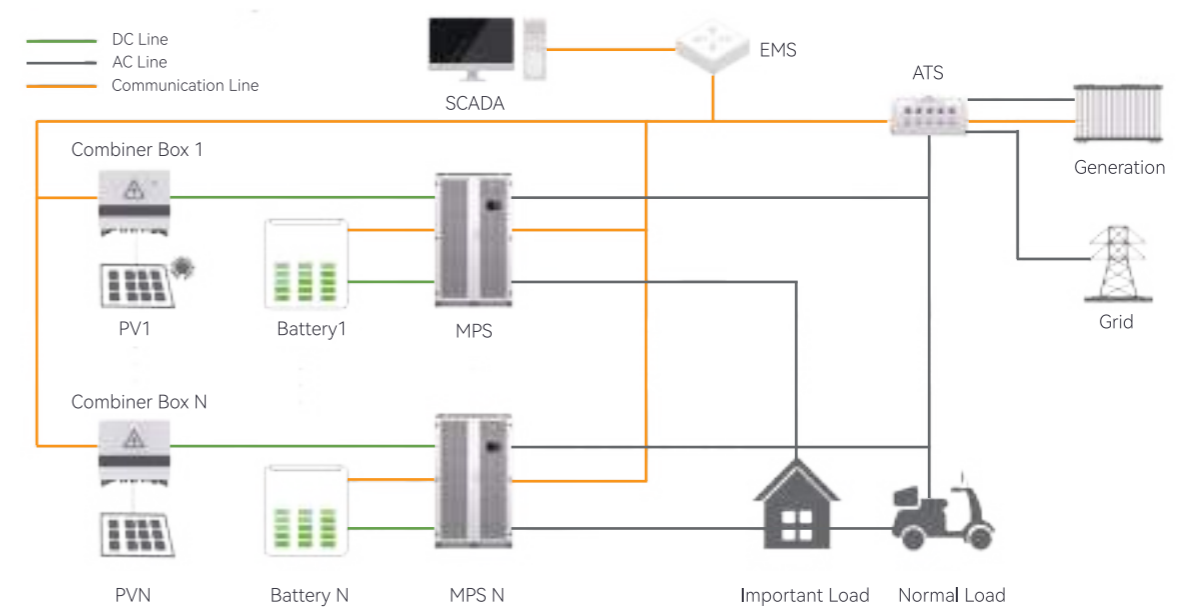
# Residential Energy Storage Solution

Residential energy storage solution from Megarevo can meet 4 different application modes. At present, it has been used in more than 15000 homes around the world, helping them reduce their dependence on the grid and make electricity more economical and free



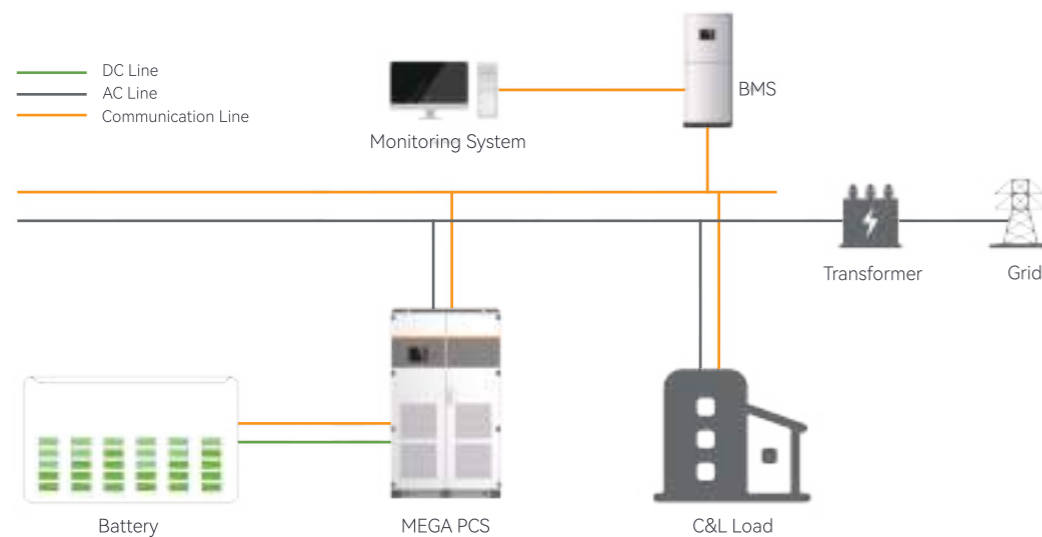
# Microgrid Solution

Huijue can provide customers with feasible solutions and turnkey services according to different application. Whether it is small-scale distributed or large-scale centralized, has rich experience in implementation, and has already helped more than 1,000 poor region to achieve energy freedom in the global.



# C&I Energy Storage Solution

Based on the characteristics of C&I loads, Huijue's solution can effectively solve the customer's transformer capacity limitation, high electricity charge and power cut-off problem. With 98.7% high efficiency conversion, it can help enterprises realize low-carbon sustainable development and shorten the return cycle of customers' investment at the same time;





# Product Line

## Energy Storage System

Stacked Voltage Version



HJ-BC-215A  
HJ-BC-372L

Industrial And Commercial Energy Storage Systems



HJ-ESS-EPSA Series

C&I Energy Storage System



HJ-ESS-215A (100KW/215KWh)  
HJ-ESS-115A (50KW/115KWh)

Outdoor Cabinet Liquid Cooling Series



HJ-ESS-DESA (372KWh- 1860KWh)

## Household Products

Household Energy Storage All-in-One System



HJ-HSH48 Series  
HJ-HS048 Series

Stacked Voltage Version (High/Low)



HJ-HBL48 Stack Series (low)  
HT-HBH48 Stack Series (high)

Home Energy Storage Battery (Wall)



HJ-HBL48100W  
HJ-HBL48200W

Home Energy Storage Battery (Rack)



HJ-HBL4850R  
HJ-HBL48100R

## Microgrid Products

Integrated Optical Storage and Charging System



HJ-HS048

## Communication Site Energy

Outdoor Cabinet Site Energy System



HJ-SG-R01-20  
HJ-SG-R01-10

Container Site Energy System



HJ-SG-D02-01  
HJ-SG-D02-02

# Residential Energy Storage All-in-One System

HJ-HSO48 energy storage system includes a 3kw or 5kw solar inverter and a lithium battery storage with optional energy ranging from 5120-10240Wh. This one-stop service system makes it more convenient for you to manage your solar home battery storage.



Safe



Pre-Wired



Wifi Monitoring



Modular Design



## Technical Parameter

Product Name	Household Energy Storage All-in-one System			Household Energy Storage All-in-one System		
Product Number	HJ-HSO4853EF	HJ-HSO4853EF1	HJ-HSO4853EF2	HJ-HSO4833AF	HJ-HSO4853AF1	HJ-HSO4853AF2
Photovoltaic Storage Inverter Parameters						
Inverter type	Off-Grid			Off-Grid		
Inverter Output Power	3000W	5000W		3000W	5000W	
AC Input Voltage	(220Vac~240Vac) ±5%(European standard)			(110Vac~120Vac) ±5%(American Standard)		
Photovoltaic input Voltage	145Vdc/60~130Vdc			145Vdc/60~130Vdc		
Photovoltaic Input Power	3000W	5000W		3000W	5000W	
Lithium Battery Parameters						
Battery Power	5.12kWh	5.12kWh	10.24kWh	5.12kWh	5.12kWh	10.24kWh
Battery Capacity	100Ah	100Ah	200Ah	100Ah	100Ah	200Ah
Battery Voltage	48Vdc			48Vdc		
Number Of Batteries Connected in Parallel	1	1	2	1	1	2
Communication Method	RS485/CAN/WIFI			RS485/CAN/WIFI		
Display Screen	LCD/LED			LCD/LED		
Degree of Protection	IP20			IP20		
Product certification	CE/IEC/UN38.3/MSDS					

# Residential Energy Storage All-in-One System

HJ-HSH48 energy storage system includes a 3kw or 5kw solar inverter and a lithium battery storage with optional energy ranging from 5120-10240Wh. This one-stop service system makes it more convenient for you to manage your solar home battery storage.



Safe



Pre-Wired



Wifi Monitoring



Modular Design

## Technical Parameter

Product Name	Household Energy Storage All-in-one System			Household Energy Storage All-in-one System		
Product Number	HJ-HSH4833EF	HJ-HSH4853EF1	HJ-HSH4853EF2	HJ-HSH4833AF	HJ-HSH4853AF1	HJ-HSH4853AF2
Photovoltaic Storage Inverter Parameters						
Inverter type	On/Off-Grid			On/Off-Grid		
Inverter Output Power	3000W	5000W		3000W	5000W	
AC Input Voltage	(220Vac~240Vac) ±5%(European standard)			(110Vac~120Vac) ±5%(American Standard)		
Photovoltaic input Voltage	145Vdc/60~130Vdc			145Vdc/60~130Vdc		
Photovoltaic Input Power	3000W	5000W		3000W	5000W	
Lithium Battery Parameters						
Battery Power	5.12kWh	5.12kWh	10.24kWh	5.12kWh	5.12kWh	10.24kWh
Battery Capacity	100Ah	100Ah	200Ah	100Ah	100Ah	200Ah
Battery Voltage	48Vdc			48Vdc		
Number Of Batteries Connected in Parallel	1	1	2	1	1	2
Communication Method	RS485/CAN/WIFI			RS485/CAN/WIFI		
Display Screen	LCD/LED			LCD/LED		
Degree of Protection	IP20			IP20		
Product certification	CE/IEC/UN38.3/MSDS					



# Residential Energy Storage Stacked (High/Low)

HJ-HBL48 Stack Series (Low)

HJ-HBH48 Stack Series (High)



**Modules Combined**  
Easy Plug-in Installation



**Extend Anytime**  
Adapt to New Requirement



**High Power**  
Power for All Applications

## Technical Parameter

Product Name		Household Energy Storage Lithium Battery (Stacked/high Voltage Version)			
Product Number	HJ-HBL48100S1	HJ-HBL48100S2	HJ-HBL48100S3	HJ-HBL48100S4	
Battery Type	Lithium Iron Phosphate Battery				
Battery Power	5.12kWh	10.24kWh	15.36kWh	20.48kWh	
Battery Capacity	100Ah	200Ah	300Ah	400Ah	
Rated Voltage	51.2Vdc				
Parallel Quantity	1	2	3	4	
Rated Charge and Discharge Current	50A	100A	100A	100A	
Maximum Charge and Discharge Current	100A	200A	200A	200A	
Cycle Life	≥ 6000 times @80%DOD@25°C				
Way of Communication	RS485/CAN				
Display Screen	LCD/LED (optional)				
Degree of Protection	IP65				
Certified Product	CE/IEC/UN38.3/MSDS				

Product Name		Household Energy Storage Lithium Battery (Stacked/high Voltage Version)			
Product Number	HJ-HBH48100S1	HJ-HBH48100S2	HJ-HBH48100S3	HJ-HBH48100S4	
Battery Type	Lithium Iron Phosphate Battery				
Battery Power	10.24kWh	15.36kWh	20.48kWh	25.6kWh	
Battery Capacity	200Ah	300Ah	400Ah	500Ah	
Rated Voltage	102.4Vdc	153.6Vdc	201.8Vdc	256.0Vdc	
Parallel Quantity	2	3	4	5	
Rated Charge and Discharge Current	50A				
Maximum Charge and Discharge Current	100A				
Cycle Life	≥ 6000 times @80%DOD@25°C				
Way of Communication	RS485/CAN				
Display Screen	LCD/LED (optional)				
Degree of Protection	IP65				
Certified Product	CE/IEC/UN38.3/MSDS				





### Lithium Iron Phosphate Battery (Wall)

Product Name	Home Energy Storage Battery(Wall-Mounted)	
Product Number	HJ-HBL48100W	HJ-HBL48200W
Battery Type	Lithium Iron Phosphate Battery	
Battery Power	5.12kWh	10.24kWh
Battery Capacity	100Ah	200Ah
Rated Voltage	51.2Vdc	
Rated Charge and Discharge Current	50A	100A
Maximum Charge and Discharge Current	100A	200A
Cycle Life	≥ 6000 times @80%DOD@25°C	
Way of Communication	RS485/CAN	
Display Screen	LCD/LED (optional)	
Degree of Protection	IP65	
Certified Product	CE/IEC/UN38.3/MSDS	



### Lithium Iron Phosphate Battery (Rack)

Product Name	Home Energy Storage Battery(Rack- Mount)	
Product Number	HJ-HBL4850R	HJ-HBL48100R
Battery Type	Lithium Iron Phosphate Battery	
Battery Power	2.56kWh	5.12kWh
Battery Capacity	50Ah	100Ah
Rated Voltage	51.2Vdc	
Rated Charge and Discharge Current	25A	50A
Maximum Charge and Discharge Current	50A	100A
Cycle Life	≥ 6000 times @80%DOD@25°C	
Way of Communication	RS485/CAN	
Display Screen	LCD/LED (optional)	
Degree of Protection	IP20	
Certified Product	CE/IEC/UN38.3/MSDS	



# Battery String

HJ-BC-215A  
HJ-BC-372L



## Battery Quality

Long life: 6000 cycles @80%;  
Battery core international certification

## Operation Guarantee

Level 2 battery safety management system;  
Key sampling points are fully covered to build a complete Internet of Things;

## Module Design

Avoid short circuits between cells; flexible buffering between cells and overall elastic restraint reduce the impact of cell expansion

## Integrated Production

20+ complete process control processes  
100+MES data points;  
500+ quality control points

## Technical Parameter

Model		
Battery Cluster Parameters	Battery Cluster	HJ-BC-372L
	Battery Pack	1331.2V/280Ah
	Battery Type	Lithium Iron Phosphate
	Cell Specifications	3.2V,280Ah
	Combination Method	1P416S
	Rated Energy	372kWh
	Rated Voltage	1331V
	Voltage Range	1040~1497V
	Nominal Charge and Discharge Current	140A
	Cooling Method	Forced Air Cooling
	Arrangement Type	3 Columns 9 Rows
	The Key Components	26 packs, 1 High Voltage Switch Box
	Charging Temperature Range	0~55°C
	Discharge Temperature Range	-20~55°C
	Ambient Humidity Range	5%~90% (No Condensation)
	Working Altitude	≤ 2000m
Protection Level	IP20	
Dimensions(L*W*H)	1500*810*2305 mm	
Weight	2550kg	

Model		
Battery Cluster Parameters	Battery Cluster	HJ-BC-215A
	Battery Pack	768V/280Ah
	Battery Type	Lithium Iron Phosphate
	Cell Specifications	3.2V,280Ah
	Combination Method	1P240S
	Rated Energy	215kWh
	Rated Voltage	768V
	Voltage Range	600~876V
	Nominal Charge and Discharge Current	140A
	Cooling Method	Forced Air Cooling
	Arrangement Type	2 Columns 8 Rows
	The Key Components	15 packs, 1 High Voltage Switch Box
	Charging Temperature Range	0~55°C
	Discharge Temperature Range	-20~55°C
	Ambient Humidity Range	5%~90% (No Condensation)
	Working Altitude	≤ 2000m
Protection Level	IP20	
Dimensions(L*W*H)	1000*810*2058 mm	
Weight	1700kg	



# Container Telecom Site Energy System

HJ-SG-R01-10

HJ-SG-R01-20

## Minimalist and standardized

Standard 10GP/20GP container, suitable for a wide range of scenarios  
Fully modular design, multi-energy input and output architecture, multiple configurations available

## Unattended

Support remote control and wireless network transmission  
Fully intelligent monitoring management, real-time alarm monitoring  
Intelligent peak shaving and energy storage management



## Product Parameters

Parameters Table		Model	
		HJ-SG-R01-20	HJ-SG-R01-10
Project	Parameter		
Environmental Requirements	Operating Temperature	- 40 ~ +50°C	
	Relative Humidity	5% ~ 95%, No Condensation	
	Heat Dissipation Method	Air Conditioning/Energy-saving Fresh Air Combination	
Basic Parameters	Size	20-Foot Container 5950mm*2438mm*2591mm	10-Foot Container 2991mm*2438mm*2591mm
	Reserved Space	Standard Rack40U*2	Standard Rack40U*1
	Temperature Control System	7.5KW Air Conditioner + Fresh air 3000 cubic meters/hour (optional)	5KW Air Conditioner + Fresh air 2000 cubic meters/hour (optional)
	Dustproof and Waterproof	IP55	
	Weight	<3.0 Tons (Excluding Equipment)	<2.0 Tons (Excluding Equipment)
Mains Power Introduction	Input Voltage	Single-Phase 85V AC ~ 300V AC / 380V Three-Phase, 45Hz ~ 66Hz	
	Input Current	Single phase 100A	
Photovoltaic	Photovoltaic Capacity	Maximum 30KW	Maximum 20KW
	Capacity	Maximum 36KW	
Load Output	Rectifier Module	Maximum 32KW (-48V)	
	Photovoltaic Module		
	Rectifier Module	600W(DC 12V/24V)	
	Inverter Module	3KW(220V)	
Energy Storage System	Lithium Iron Phosphate Battery	Maximum 50KWh	Maximum 30KWh
Dynamo	Diesel Generator Sets	Silent Type, Fully Automatic, AC 380V, 15KW~50KW (Optional)	

# Solar Storage And Charging System



## Product Parameters

Cell Parameters	
Cell Type	LEP
Cell Specification	3.2V/280AH
Maximum Magnification	0.5°C
Cycle Life	6000times@25C0.5P/0.5P
Operating Temperature	Charging temperature 0-55, discharging temperature -20-55°C
Battery Module Parameters	
Combination	16S
Rated Capacity	280Ah
Rated Voltage	51.2V
Rated Energy	14.336KWh
Maximum Magnification	0.5°C
Battery Cluster Parameters	
Number of Packs Per Cluster	14
Rated Capacity	280Ah
Rated Voltage	716.8V
Rated Energy	200.704KWh
Maximum Magnification	0.5°C
Battery Compartment System Parameters	
Rated Energy	2007.4KWh
Rated Voltage	716.8V
Maximum Magnification	0.5°C
Cooling Method	Air Cooled
Maintenance Method	Walk in
Decree of Protection	IP54
System Communication Interface	CAN/RS485/Ethernet
System Communication Protocol	Modbus-RTU/Modbus-TCP/IEC 61850
Dimensions(L*W*H mm)	12192*2438*2896

## Features

### Modular Design

Modular structure, free matching of battery pack capacity, multiple PCS power options

### Lithium Iron Phosphate Battery

High-performance lithium iron phosphate battery, long cycle life, efficiency up to 90%, active/passive balance

### Flexible Operating Mode

Modular structure, free matching of battery pack capacity, multiple PCS power options

### Integrated System

Full System Snap-in  
Intelligent monitoring management platform



# Outdoor Liquid Cooled Energy Storage Converged Cabinet

HJ-ESS-233A series



## Ultimate Safety

Battery firewall, partition isolation in the cabinet, safe and reliable Comprehensive fire, Pack level, cabinet level active passive fire technology combination Cloud edge end collaboration, 3S deep coupling, real-time detection

## Revenue Changhong

Preferred battery, select the first-line brand lithium iron phosphate battery  
Variable frequency liquid cooling, the temperature difference in the cabinet is less than 3°C, the life of the cell is increased by 30%  
Overall delivery, factory prefabrication,  
All-in-One integrated delivery, reduce the initial investment of more than 20%

## Easy Station Construction

Far-East star service, technical experts to provide a variety of exclusive technical services  
Remote inspection, independent EMS multi-port customized real-time monitoring  
Environment friendly, IP54 protection level, meet the outdoor -30°C extreme environment use

## Product Parameters

Item	HJ-ESS-233A
<b>Inverter</b>	
Rated AC Power	100kW
Rated AC Current	144A
Rated AC Voltage	3W+PE,400Vac
THDI	<5% (Ratedpower)
THDU	<3% (Linearloads)
<b>Battery</b>	
Cell Type	LiFePO4
Nominal Energy	232.96kWh
Nominal Capacity	280Ah
Rated Voltage	832Vdc
Operating Voltage Range	650Vdc~959Vdc
Cycle Life	>8000@25°C@0.5C
<b>System</b>	
Communication	RS485,CAN,Ethernet
Cooling Method	Liquid cooling
Fire Fighting	Pack+cabinet-leveldetectioninhibition:Suppressionmedium:aerosol (standard)/perfluorohexanone(optional)
Operation Altitude	<4000m (Morethan2000mderating)
Protection Level	IP54
Dimensions(W*D*H)	1375*1350.5*2050mm
Weight	≈2.5T
Safety Pregulation,EMC	IEC62619/CE/UL1973/UL9540A/UN38.3/RoHS/IEC61000-6-2:2019/ENIEC61000-6-4:2019/EN62109-2:2011/EN62109-1:2010/IEC62109-2:2011/IEC62109-1:201



# C&I Energy Storage System

HJ-ESS-215A(100KW/215kWh)

HJ-ESS-115A(50KW/115kWh)



Huljue Group's industrial and commercial energy storage system adopts an integrated design concept, integrating batteries in the cabinet, battery management system BMS, energy management system EMS, modular converter PCS and fire protection system. The modular design can be flexibly expanded to adapt to various scenarios.

## Product Parameters

Product Model		HJ-ESS-215A (100KW/215KWh)		HJ-ESS-115A (50KW 115KWh)			
DC Parameters		AC Parameters		DC Parameters		AC Parameters	
Battery Type	LiFePO4	AC Side Rated Power	100KW	Battery Type	LiFePO4	AC Side Rated Power	50KW
Cell Capacity	3.2V/280Ah	Maximum Power on AC Side	110KW	Cell Capacity	3.2V/150Ah	Maximum Power on AC Side	55KW
System Battery Configuration	1P240S	Cable THD	<3% At rated power	System Battery Configuration	1P240S	Cable THD	<3% rated power
Rated Battery Capacity	215KWh	Rated voltage of AC side	380V AC	Rated Battery Capacity	115KWh	Rated voltage of AC side	380V AC
Battery Voltage Range	DC636-876V	AC Access Mode	3P+N+PE	Battery Voltage Range	DC636-876V	AC Access Mode	3P+N+PE
Charge/Discharge Ratio	0.5C	Rated Grid Frequency	50/60H2	Charge/Discharge Ratio	0.5C	Rated Grid Frequency	50/60H2
Depth of Discharge	80%	Power Factor Range	0.98	Depth of Discharge	80%	Power Factor Range	0.98
Battery Cooling Method	Air Cooled	Off-Grid Operation	support	Battery Cooling Method	Air Cooled	Off-Grid Operation	Support
System Parameters							
Dimensions	1600*1280*2200mm	Temperature Control Methods	Industrial-grade temperature-controlled air conditioner	Dimensions	1600 * 1200 * 2000mm	Temperature Control Methods	Industrial-grade temperature-controlled air conditioner
IP Degree	IP55	Fire Protection Program	Aerosol, PFH	IP Degree	IP55	Fire Protection Program	Aerosol, PFH
System Communication Protocol	Standard:Modbus	Communication Interface	RS485、RJ45	System Communication Protocol	Standard:Modbus	Communication Interface	RS485 RJ45

# Industrial And Commercial Energy Storage Systems

HJ-ESS-EPSA Series



## Features

Shave Off Expensive Peak Charges

Safe & Reliable Hardware

Flexible Capacity Expansion

Built-in BMS

Safe & Reliable

Emergency Backup Power and Resilience

## Introduction

Huijue Group's container energy storage system is composed of 20/40-foot prefabricated cabin groups. It is a container that meets megawatt-level power output requirements and integrates energy storage battery system, energy management system, monitoring system, temperature control system and fire protection system. The storage product uses the battery pack as the basic unit, which can cover the scene needs of different voltages and different capacities. It can cooperate with photovoltaic, wind power, thermal power and other systems to achieve new energy consumption, smooth output, peak shaving and valley filling, frequency and peak regulation, and for The power grid provides auxiliary services, etc., and extensively evaluates all aspects of generation, transmission, distribution and use

## Program Features

Cell Parameters	
Cell Type	LEP
Cell Specification	3.2V/280AH
Maximum Magnification	0.5°C
Cycle Life	6000times@25C0.5P/0.5P
Operating Temperature	Charging temperature 0-55, discharging temperature -20-55
Battery Module Parameters	
Combination	16S
Rated Capacity	280Ah
Rated Voltage	51.2V
Rated Energy	14.336KWh
Maximum Magnification	0.5°C
Battery Cluster Parameters	
Number of Packs Per Cluster	14
Rated Capacity	280Ah
Rated Voltage	716.8V
Rated Energy	200.704KWh
Maximum Magnification	0.5°C
Battery Compartment System Parameters	
Rated Energy	2007.4KWh
Rated Voltage	716.8V
Maximum Magnification	0.5°C
Cooling Method	Air Cooled
Maintenance Method	Walk in
Decree of Protection	IP54
System Communication Interface	CAN/RS485/Ethernet
System Communication Protocol	Modbus-RTU/Modbus-TCP/IEC 61850
Dimensions(L*W*H mm)	12192*2438*2896



# Outdoor Communication Site Energy System

HJ-SG-R01-10

HJ-SG-R01-20



## Protection Level

Cabinet protection IP55  
C4 anti-corrosion grade FRP material has strong anti-corrosion performance

## Various Power Supplies

Supports the introduction of multiple power sources from photovoltaic/wind power/generators  
Multiple voltage outputs: AC220V, DC (-48V, -24V-12V)

## Energy Storage Battery

Configurable, efficient, safe and long life

## Temperature Control

Automatically adjusts wind speed cooling, low power consumption, supports RS485 communication

## Product Parameters

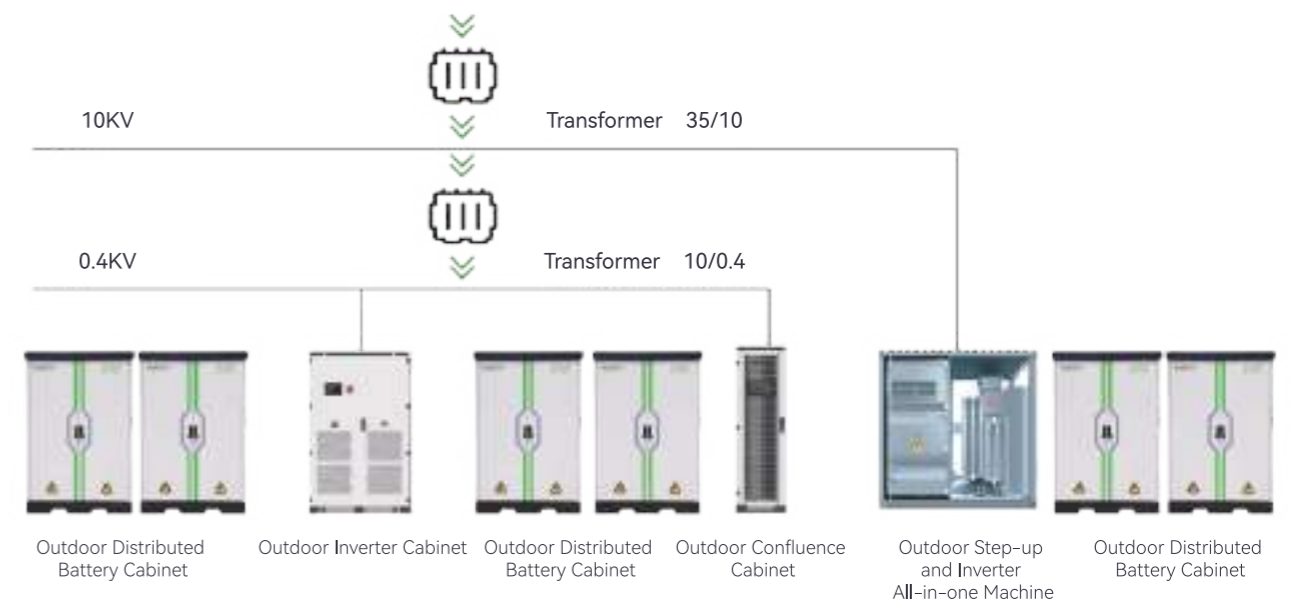
Parameters Table		Model	
		HJ-SG-D02-01	HJ-SG-D02-02
Project		Parameter	
Environmental Requirements	Operating Temperature	- 40 ~ +50°C	
	Relative Humidity	5% ~ 95%, No condensation	
	Heat Dissipation Method	AC/Emergency Fan Combination	
Basic Parameters	Size	Single Warehouse 40U Cabinet: 2100mm*900mm*900mm	Double Warehouse 40U Cabinet: 2100mm*1750mm*900mm
	Reserved Space	10U*1	40U
	Temperature Control System	1.5KW AC/Emergency Fan +DC300W AC	1.5KW AC*2/Emergency Fan
	Dustproof and Waterproof	IP55	
	Weight	<500KG (Equipment not included)	<800KG (Equipment not included)
Mains Power Introduction	Input Voltage	Single-phase 85V AC ~ 300V AC / 380V three-phase, 45Hz ~ 66Hz	
	Input Current	Single phase 100A	
Photovoltaic	Photovoltaic Capacity	Maximum6.6KW	Maximum6.6KW
	Capacity	Maximum24KW	
Load Output	Rectifier Module	Maximum24KW (-48V)	
	Photovoltaic Module		
	Rectifier Module	600W(DC 12V/24V)	
	Inverter Module	3KW(220V)	
Energy Storage System	Lithium Iron Phosphate Battery	Maximum20KWh	Maximum30KWh
Dynamo	Diesel Generator Sets	Silent Type, Fully Automatic, AC 380V, 8KW~20KW (optional)	
Wind Power	Wind Turbine + Controller	Rated Power: 1KW/48V Battery System (Optional)	



# Outdoor Cabinet Liquid Cooling Series



## System Topology



## Technical Parameter

Product Model		HJ-ESS-DESA (372KWh- 1860KWh)				
Product Number	HJ-ESS-DESL1	HJ-ESS-DESL2	HJ-ESS-DESL3	HJ-ESS-DESL4	HJ-ESS-DESL5	
Number of Battery Cabinets	1	2	3	4	5	
Rated Energy	372KWh	744KWh	1116KWh	1488KWh	1860KWh	
Rated Power	150KW	250KW	500KW	500KW	1000KW	
System Efficiency	90%	90%	90%	90%	90%	
Size	1700 * 1250 * 2200 (single battery cabinet, reference size)					
System Parameters						
Grid-Connected System	3W+N+PE	Grid Voltage	380(-15%~+10%)	Grid Connection Frequency (Hz)	50(+2)/60(+2)	
Power Factor	-0.9 ~ +0.9	Output Harmonics	≤ 3% ( Rated Power )	Cooling Method	Liquid Cooling	
Cycle Life ( Times )	80%DOD 6000	degree of protection	IP54	Installation Method	Outdoor, Floor Installation	
Weight	≤ 3000KG	Certified		CE , ROHS , UN38.3/MSDS		

- ✓ Shaving Peaks and Filling Valleys
- ✓ Peak Valley Arbitrage
- ✓ The Utilization of Renewable Energy
- ✓ Improve the Stability of Power System
- ✓ Backup Power
- ✓ Costs for Power Grid Upgrades

# Project Case

(Telecom Site with Solar System)



Nepal Project



Qinghai Xining Project



Vietnam 100mw/200mwh



Langfang, Hebei 150kw/306kwh



ShangQiu Project



Australia Project



Pakistan 200kw/100kwh



Nigeria 250kw/630kwh



# Project Case

(Home Energy Storage)

(Communication Site)



France 10kw/15kwh



England 7kw/15kwh



Remote Town in Xinjiang 150kw/200kwh



Western Sichuan 60kw/200kwh



South Africa 11kw/15kwh



An office in Ganzhou 10kw/15kwh



United Arab Emirates 100kw/200kwh



Egypt 250kw/200kwh

# Project Case

(Outdoor Cabinets Case Study)



Nepal Project



Saudi Arabia Project



Zhangjiajie, Hunan Project



A city in China Project



Malaysia Project



Niger Project



Shanghai FengXian Project



Brazil Project





# Professional Services

## Pre-sales

Full System Snap-in  
Intelligent monitoring management platform  
Determine the technical plan and sign the technical agreement.

## During Sales

A professional team tracks the process on-site throughout.  
Support customer site inspections and results verification.  
Provide expert recommendations for solution optimization.

## After Sales

Offer after-sales technical consultation and training services.  
Can improve products according to user needs.  
Support remote product upgrades.  
Thirty after-sales support centers worldwide for lightning-fast response: