

COMPANY PROFILE

Add: No.4, Songbai Road, Huinan High-tech Industrial Park, Huizhou City, Guangdong Province

Tel: 0752-2533906/18824332351

Web: www.ecelibattery.com

Hui Zhou ECE Energy Technology Co.,Ltd

To be world top leader in energy storage system integration



CONTENT

01

Company profile

02

Micro grid system

03

**Integrated solar energy
storage system**

04

Pull rod box Power Station

05

**Communication Base Station
Backup Battery**

06

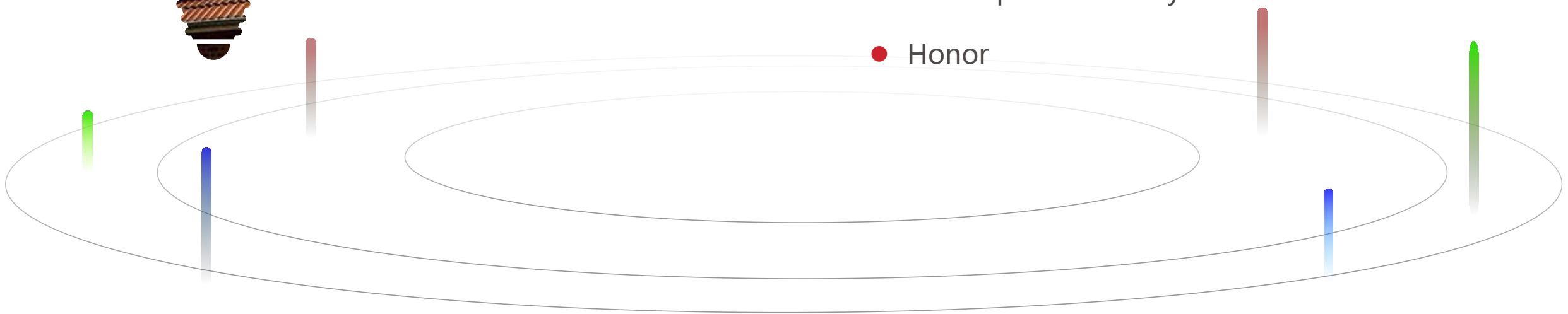
**Customization Battery and
system solution**



01

Company profile

- Company Introduction
- Founder Introduction
- Development History
- Honor



Company Introduction



- Founded in May 2018, it is a national-level high-tech enterprise, a "specialized unique refined innovative Enterprise" in Guangdong Province, and a "Huizhou Energy Storage System Integrated Engineering Technology Research Center".
- Original factory for the research and manufacturing of residential micro-grid system, commercial & industrial energy storage system products, telecom back power batteries, special low-speed vehicle batteries.
- System certification: ISO9001 / ISO14001 / ISO45001
- Product certification: CE, UN38.3, IEC, PSE, UL, MSDS, RoHS

Founder Introduction



Founder & Chairman Wang Zhenyu

- Peking University Phd
- Distinguished Professor of Chemical Engineering School, Huizhou University, master tutor and student entrepreneurship tutor
- MIIT (Lithium Battery) Senior Engineer 73 national patents
- "Top Ten Innovators in China's Economy 2020", advanced science and technology management workers
- Working in the new energy industry for more than 20 years, with senior experience in product technology, operation and project management ;
- Operating experience as CEO of a ten-billion listed company, successively served as an executive/group general manager of two listed companies (EVE & OptomunNano)

Development history

2018



On 8th, Sep, New factory in Huinan High-tech industrial Park

2020



In Dec, identified as "specialized unique refined innovative" enterprise in Guangdong

2022

To be world top leader in integrated energy storage system

2019

On 18th, Jun . ECE was established in Huizhou, Guangdong



In Dec , to be National high-tech enterprise



2021

In Oct, passed Huizhou Energy Storage System Integration Engineering Technology Research Center



Future

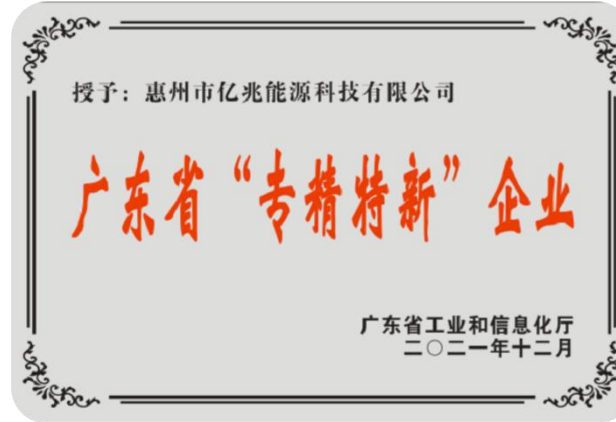
Honor



- National high-tech Enterprise certificate



- The second prize of the 9th China Innovation and Entrepreneurship Competition



- Awarded as the "specialized unique refined innovative" enterprise of Guangdong Province



- Member of the lithium battery Industry Intellectual Property Alliance of Huizhou Zhongkai High-tech Zone



- Vice Chairman of Energy Storage Application Branch of CESA



- Huizhou Energy Storage System Integration Engineering Technology Research Centre

Honor



■ 2020 China Energy Storage Industry Best System Integration Solution Enterprise Award



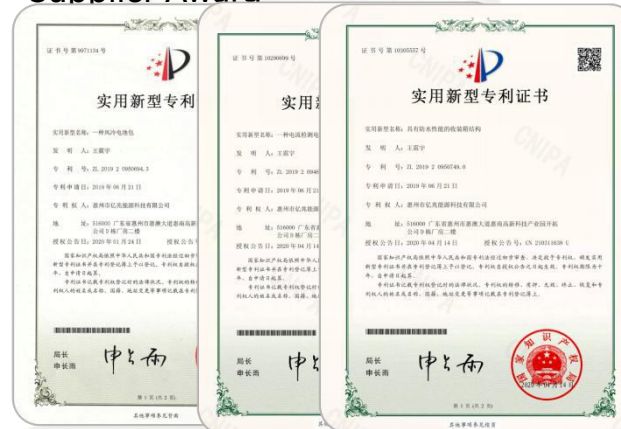
■ 2021 China Energy Storage Industry Best Energy Storage Intelligent Equipment Supplier Award



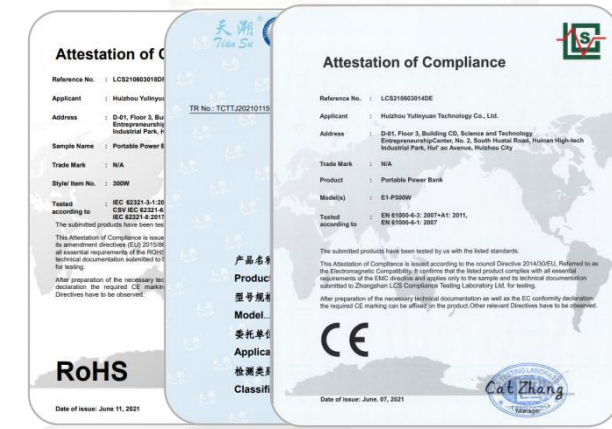
■ 2021 China Energy Storage Industry Best Mobile Energy Storage Technology



■ ISO 9001:2015, ISO 14001:2015, OHSAS18001/ ISO45001:2018



■ Over 50 national patents

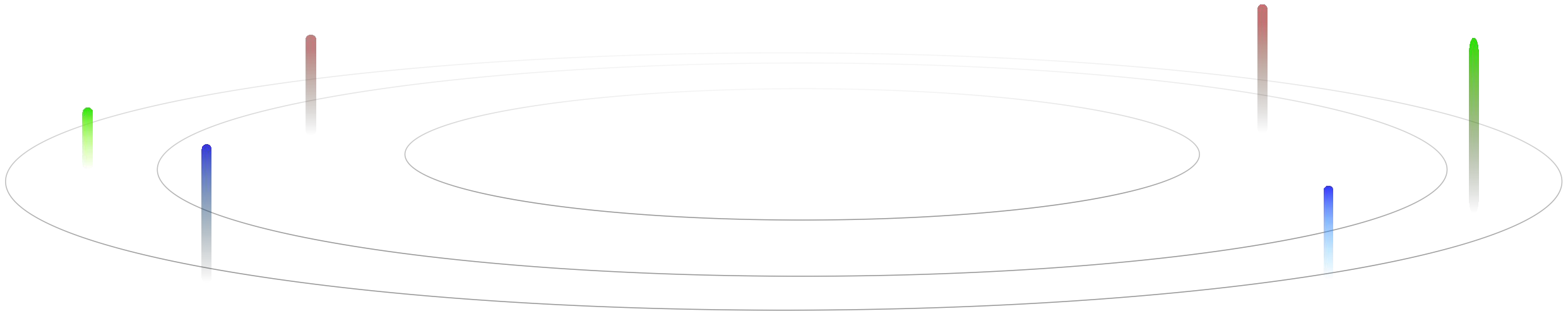


■ CE,UL,UN38.3,IEC,TUV,ROHS

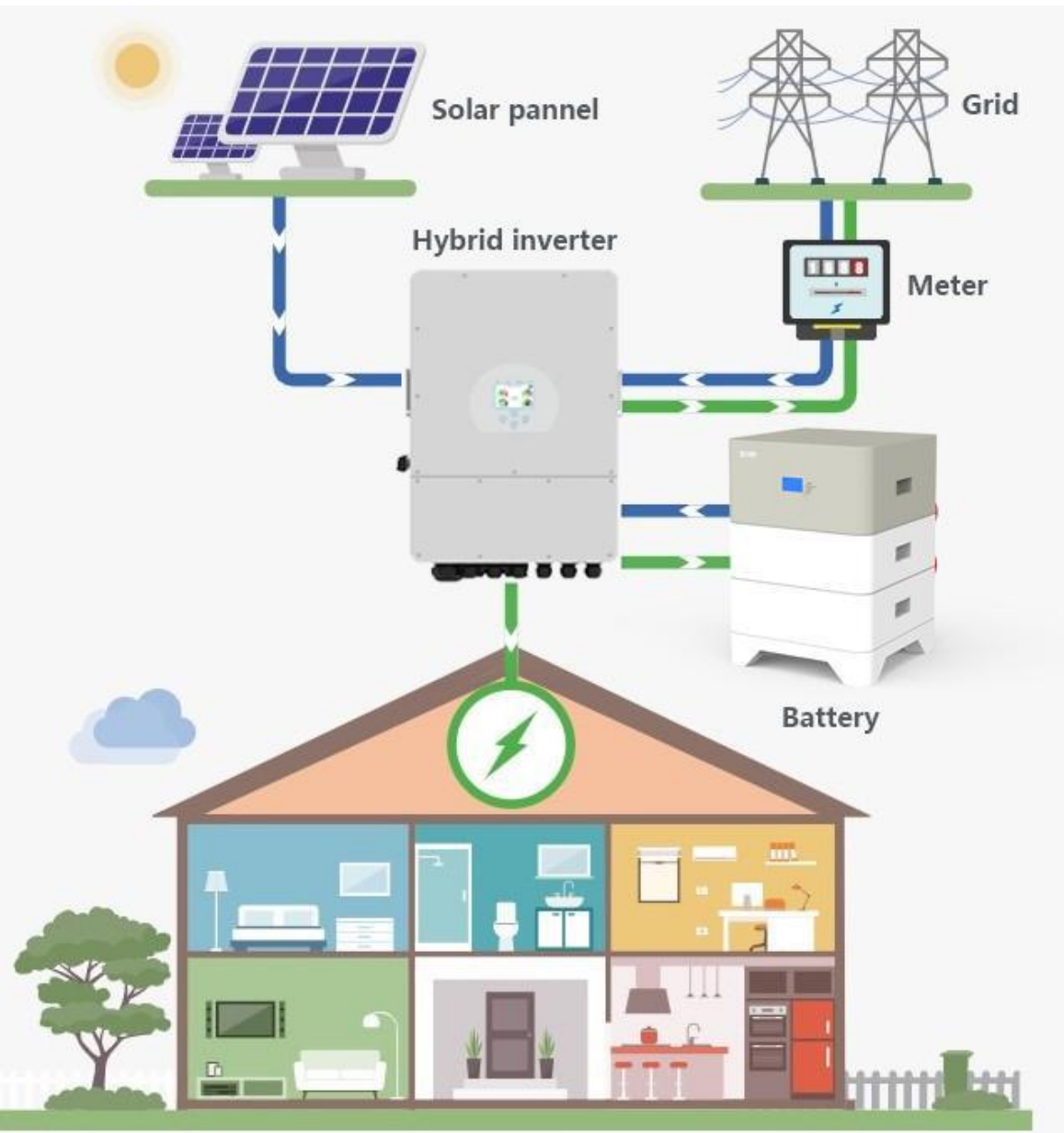


02

Micro grid system



System introduction >



Micro-Grid is composed of a small power distribution system consisting of distributed power sources, Solar power system, energy storage batteries, energy conversion devices, load, monitoring and connection and protection devices.

There are two types of common microgrid forms:

Grid-connected microgrid

Off-grid microgrid

- **System feature**

- Off-grid use is suitable for islands, mountainous areas, border posts, communication base stations and other remote areas or areas with unstable power supply, and also for light storage and charging energy optimization systems in new science and technology parks.

- **Operation logic :**

- When there is sunshine:

The solar energy preferentially supply the load > charge the battery > connect the grid and sell electricity

- When there is no sunshine:

The battery preferentially supply the load > grid supplement

System configuration list >

System configuration: configure the microgrid system according to the actual power demand, load, installation location, installation area, etc

Model	5KWH- on grid and off grid	10KWH-on grid and off grid	15KWH-on grid and off grid	20KWH-on grid and off grid
PV pannel	RM-580W-182M/ 144TB*4	RM-580W-182M/ 144TB*10	RM-580W-182M/ 144TB*12	RM-580W- 182M/144TB*14
inverter	SUN-5K-SG04LP3- EU	SUN-10K-SG01LP3	SUN- 10K-SG04LP3- EU	SUN- 10K-SG04LP3- EU
Energy storage battery	LFP51.2V100AH	LFP51.2V100AH*2	LFP51.2V100A3H*3	LFP51.2V100AH*4
PV Box	ECEPV-5000	ECEPV-10000	ECEPV-15000	ECEPV-20000
PV cable	Red + black /200 M			
Battery cable	Including			
Connector	Including			
PV bracket	Roof or floor customization is optional			
System efficiency	85%-95%			
Life	25 years+			

Battery system > Wall-mounted -low voltage



No.	parameter	5KWh	10KWh	15KWh	20KWh
1	Rated Voltage(V)	51.2	51.2	51.2	51.2
2	RatedCapacity (Ah)	100	200	300	400
3	Rated energy(KWh)	5.12	10.24	15.36	20.48
4	System operating voltage range(V)	40-58.4	40-58.4	40-58.4	40-58.4
5	Max continuous charge current(A)	100	200		
6	Max continuous discharge current(A)	100	200		
7	Recommended C rate	0.2-0.5C			
8	Recomend charge/ discharge current(A)	50	100	150	180
9	Operating temperature(°C)	-20~+60			
10	Communicating function	CAN/RS485			
11	Battery size (W*D*H/mm)	Unit : 450 * 113) * 815			
12	Battery box	Iron			
13	Weight(Kg)	50	100	150	200
14	Pros	can be used in offgrid and hybrid steups,compact design			
15	Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.			

Product features:

- Single battery energy 5,120 Wh
- The capacity can be increased to 80 KW by parallel 16 units
- Match hybrid inverter such as Goodwe, Victron, SMA, Victronic, Deye etc

Battery system > Stackable battery-low voltage



Product features:

- Single battery energy 5,120 Wh
- The capacity can be increased to 80 KWh by parallel 16 units
- Match hybrid inverter such as Goodwe, Victron, SMA, Victronic, Deye etc.

No.	parameter	5KWh	10KWh	15KWh	20KWh
1	Rated Voltage(V)	51.2	51.2	51.2	51.2
2	RatedCapacity (Ah)	100	200	300	400
3	Rated energy(KWh)	5.12	10.24	15.36	20.48
4	System operating voltage range(V)	40-58.4	40-58.4	40-58.4	40-58.4
5	Max continuous charge current(A)	100	200		
6	Max continuous discharge current(A)	100	200		
7	Recommended C rate	0.2-0.5C			
8	Recomend charge/ discharge current(A)	50	100	150	180
9	Operating temperature(°C)	-20~+60			
10	Communicating function	CAN/RS485			
11	Battery size (W*D*H/mm)	520*500*350	520*500*520	520*500*690	520*500*860
12	Battery box	Iron			
13	Weight(Kg)	65	120	175	240
14	Pros	can be used in offgrid and hybrid steups,compact design			
15	Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.			

Battery system > Stackable battery-low voltage

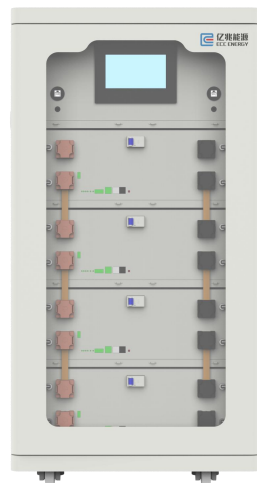


Product features:

- Low-pressure, free-way stacking
- Single-set energy of 5,120 Wh
- Support for parallel expansion of capacity, up to 80KWh
- Above 20 KWh, multiple reactor parallel mode can be adopted.
- Match hybrid inverter such as Goodwe, Victron, SMA, Victronic, Deye etc

No.	parameter	25KWh	30KWh	35KWh	40KWh	45KWh
1	Rated Voltage(V)	51.2				
2	RatedCapacity (Ah)	500	600	700	800	900
3	Rated energy(KWh)	25.6	30.72	35.84	40.96	46.08
4	System operating voltage range(V)	40-58.4V				
5	Max continuous charge current(A)	200A				
6	Max continuous discharge current(A)	200A				
7	Recommended C rate	unit battery module0.2-0.5C				
8	Recomend charge/discharge current(A)	180A				
9	Operating temperature(°C)	-20°C~+60°C				
10	Communicating function	CAN/RS485				
11	Battery size (W*D*H/mm)	with screen : 520 * 500 * 320 no screen : 520* 500 * 170 base : 520 * 500 * 100				
12	Battery box	Iron				
13	Weight(Kg)	≈330KG	≈400KG	≈460KG	≈530KG	≈600KG
14	Pros	can be used in offgrid and hybrid steups,compact design				
15	Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.				

Battery system > Cabinet-type -low voltage

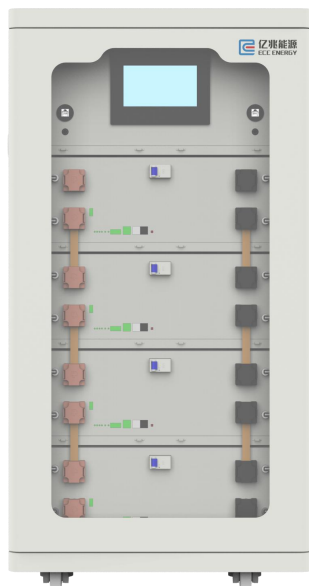


Product features:

- Low-pressure, parallel connection, cabinet type
- Single-set energy of 5,120 Wh
- Support for parallel expansion of capacity, up to 80 KWh
- Match hybrid inverter such as Goodwe, Victron, SMA, Victronic, Deye etc

No.	parameter	5KWh	10KWh	15KWh	20KWh	55KWh
1	Rated Voltage(V)	51.2				
2	RatedCapacity (Ah)	100	200	300	400	500
3	Rated energy(KWh)	5.16	10.24	15.36	20.48	25.6
4	System operating voltage range(V)	40-58.4				
5	Max continuous charge current(A)	200				
6	Max continuous discharge current(A)	200				
7	Recommended C rate	unit battery module0.2-0.5C				
8	Recomend charge/discharge current(A)	50A	100	150	180	
9	Operating temperature(°C)	-20~+60				
10	Communicating function	CAN/RS485				
11	Battery size (W*D*H/mm)	Unit battery module:516*480*178mm Black cabinet: 590*630*1170.1 White cabinet : 630*630*1208.5				
12	Battery box	Iron				
13	Weight(Kg)	Unit battery module:50kg Cabinet:60kg				
14	Pros	can be used in offgrid and hybrid steups,compact design				
15	Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.				

Battery system > Cabinet-type -high voltage



No.	parameter	25KWh	30KWh	35KWh	40KWh	45KWh	50KWh	55KWh	60KWh	65KWh	70KWh	75KWh	80KWh
1	Rated Voltage (V)	256	307.2	358.4	409.6	460.8	512	563.2	614.4	665.6	716.8	768	819.2
2	Rated Capacity (Ah)	100Ah											
3	Rated energy(kwh)	25.6	30.72	35.84	40.96	46.08	51.2	56.32	61.44	66.56	71.68	76.8	81.92
4	System operating voltage range(V)	200 ~ 292	240 ~ 350.4	280 ~ 408.8	320 ~ 467.2	360 ~ 525.6	400 ~ 584	440 ~ 642.4	480 ~ 700.8	520 ~ 759.2	560 ~ 817.6	600 ~ 876	640 ~ 934.4
5	Max continuous charge current(A)	100											
6	Max continuous discharge current(A)	100											
7	Standard discharge current(A)	50											
8	Standard charge current(A)	50											
9	Operating temperature	-20 ~ +60											
10	Communicating function	CAN /RS485											
11	Battery size(mm)	1180*800*1195	1180*800*1195	1180*800*1195	1180*800*1400	1180*800*1400	1180*800*1600	1180*800*1600	1700*800*1400	1700*800*1400	1700*800*1400	1700*800*1600	1700*800*1600
12	Battery box	Iron											
13	Weight(Kg)	≈300	≈350	≈390	≈460	≈500	≈550	≈600	≈660	≈700	≈750	≈800	≈860
14	Pros	can be used in offgrid and hybrid steups,compact design											
15	Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.											

Product features:

- High voltage、 Series connection,cabinet type
- Series expansion of capacity, up to 100 KWh
- Match hybrid inverter such as Goodwe,Victron,SMA,Victronic,Deye etc

System parts > Solar panel



Model	RM-410W-182M/108	RM-530W-182M/144	RM-530W-182M/144TB
Rated Power in Watts- Pmax(Wp)	410	530	580
Open Circuit Voltage- Voc(V)	37.67	49.32	51.47
Short Circuit Current- Isc(A)	13.88	13.70	14.37
Max. Power Voltage- Vmpp(V)	31.18	41.41	42.59
Max. Power Current- Imp(A)	13.15	12.81	13.62
Module Efficiency(%)	21.00	20.94	22.44
Solar Cells	Monocrystalline	Monocrystalline	Monocrystalline
Module Dimensions(mm)	1722× 1134×35	2279× 1134×35	2279× 1134× 35
Weight	21.5kg	28.6kg	34kg
Operational Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Max. System Voltage	1500V DC	1500V DC	1500V DC
Max. Series Fuse Rating	25A	25A	
Number of Modules Per Container	806	620	620
Number of Modules Per Pallet	31	31	31
Number of Pallets Per Container	26	20	20
Packaging Box Dimensions (l×w×h) (mm)	1750× 1120× 1260	2310× 1135× 1260	2300× 1120× 1260

System parts > Solar bracket

According to the different installation surface of the user:

	Aluminum alloy bracket	Steel bracket
Anti-corrosion performance	Later use process does not need corrosion maintenance, good corrosion performance	Hot penetration galvanizing is generally used(>65um);Anti-corrosion maintenance is required in the later use
Mechanical strength	The deformation amount of aluminum alloy is about 2.9 times higher than that of steel	The steel strength is about 1.5 times that of aluminum alloy
Material weight	About 2.71kg / m ²	About 7.85kg / m ²
Material price	Aluminum alloy price is about 3 times that of steel	
Applicable project	Household rooftop power station for load-bearing requirements;Power roof of industrial plants against corrosive requirements	Strong wind area、large span area and power stations with strength requirements



System parts > Hybrid Inverter



Product features:
Matching 48V series battery cabinet (low voltage)

Model	Single-phase hybrid (Wall-mounted)					
Battery voltage (V)	48					
Maximum PV input power(W)	6500	10400	13000	15600	18200	20800
PV rated input voltage(V)	550 (160 ~ 800)		550 (160 ~ 800)		370 (125 ~ 500)	
MPPT Operating voltage range(V)	200 ~ 650		200 ~ 650		150 ~ 425	
MPPT Maximum charging current(A)	13+13		26+13		26+26+26	
Each group string short circuit input current(A)	17+17	17+17	34+17	44+44+44		
Total strings of all MPPT	2	2	2	3		
Output rating (W)	5500	8800	11000	12000	14000	16000
Emergency output power(W)	5000	8000	10000	10000	12000	14000
Rated output AC voltage(V)	L/N/PE 220/230Vac (single phase)					

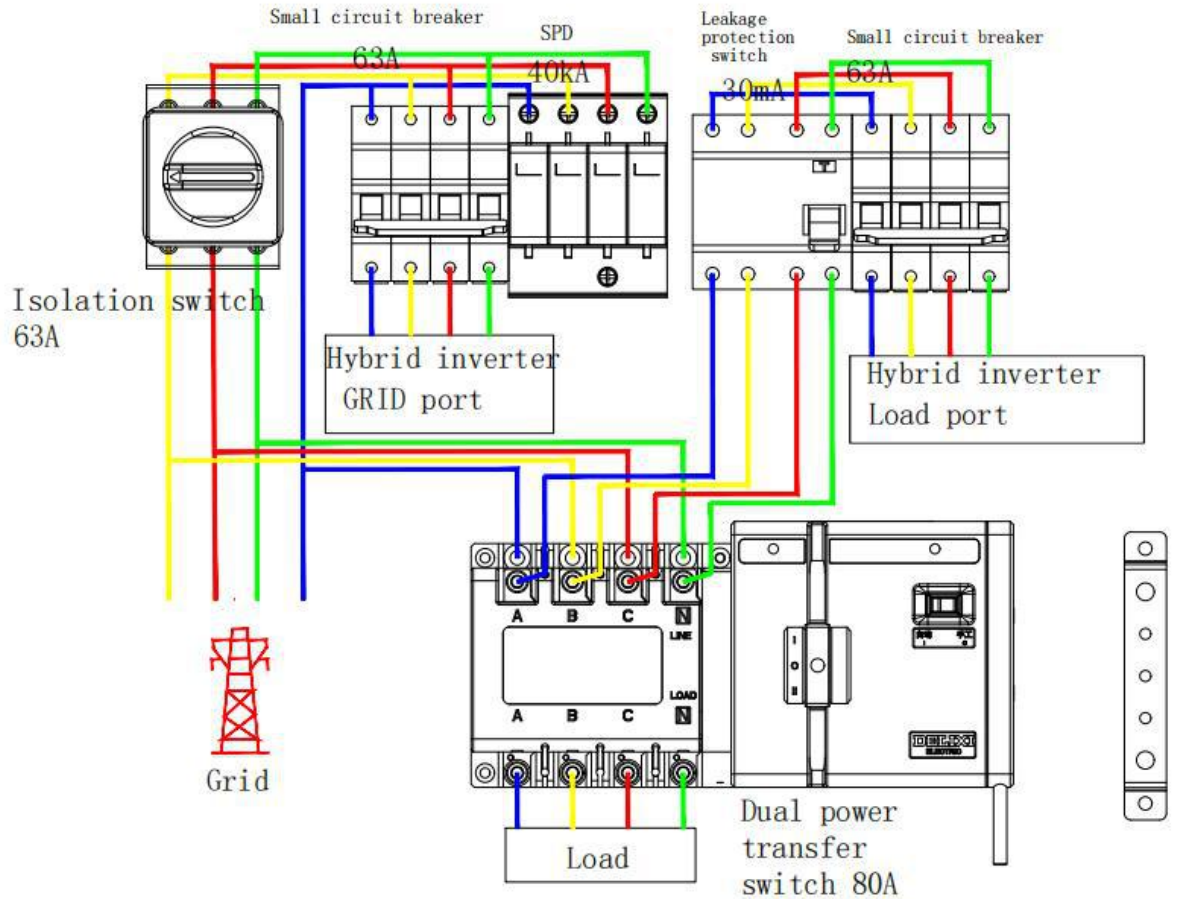
System parts > Hybrid Inverter



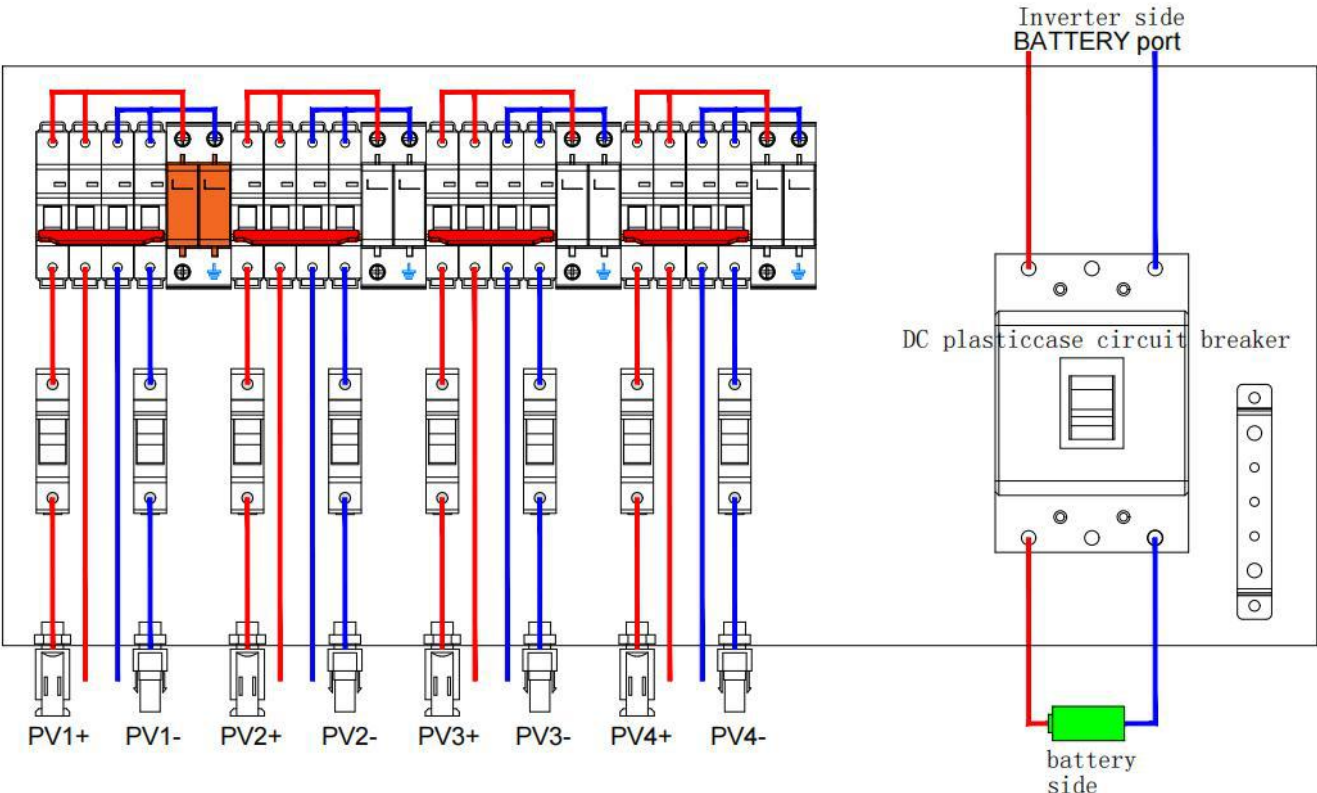
Model	Single-phase hybrid (Wall-mounted)					
Battery voltage(V)	48					
Maximum PV input power(W)	6500	10400	13000	15600	18200	20800
PV rated input voltage(V)	550 (160 ~ 800)			550 (160 ~ 800)	370 (125 ~ 500)	
MPPT Operating voltage range (V)	200 ~ 650			200 ~ 650	150 ~ 425	
MPPT Maximum charging current (A)	13+13		26+13	26+26+26		
Each group string short circuit input current (A)	17+17	17+17	34+17	44+44+44		
Total strings of all MPPT	2	2	2	3		
Output rating (W)	5500	8800	11000	12000	14000	16000
Emergency output power (W)	5000	8000	10000	10000	12000	14000
Rated output AC voltage (V)	L/N/PE 220/230Vac (single phase)					

System parts > PV Box-AC

AC PV Box is an important power supply protection part suitable for the photovoltaic cluster power generation system to undertake the cluster inverter and the power grid system. The input line of this PV box adopts circuit breaker input, the output adopts circuit breaker or load isolation switch, the circuit protection part adopts photovoltaic grid-connected circuit breaker and isolation switch, and the secondary lightning protection is adopted.



System parts > PV Box-DC



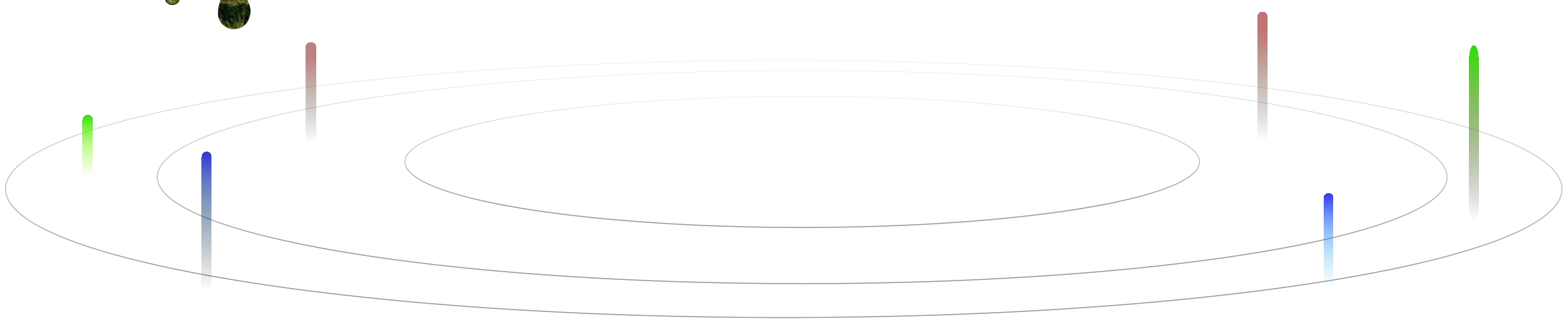
Case





03

Integrated solar energy storage system



Integrated energy storage cabinet >



ECE Energy large-scale intelligent energy storage system adopts lithium iron phosphate battery as the energy carrier. Through PCS charging and discharging, it can realize a variety of energy exchange with the power system, and can be connected to a variety of power supply modes, such as photovoltaic arrays, wind energy, diesel generators and power grid energy storage systems. The output of the energy storage system can be connected to the grid and supplied to various load equipment and electric vehicle chargers.

The system includes lithium battery pack, battery management system, energy conversion system, control system and other devices. The technical core is battery pack, battery cluster structure design, battery system thermal design, battery system protection technology, battery management system and so on.

Energy storage battery system solutions



Wind&Solar Energy Storage Solution (Power Generation Side)



Industrial and Commercial Energy Storage Solutions (User Side)



Grid Side Independent Energy Storage Power Station Solution (Power Grid Side)



Integrated Solution of Solar Storage and Charging (User Side)

Core Competence

- 01
- 02
- 03
- 04

- Low Cost**
- Intelligent Self Operation**
- Maintenance Free**
- Easy to Install**

Functional Features

- Energy storage peak cutting and valley filling
- Power quality compensation
- Virtual capacity enhancement
- Demand side response
- Demand management
- Participate in grid support services

Integrated energy storage cabinet

- Product integration: power module, energy storage battery, refrigeration, fire protection, power distribution, moving ring monitoring and energy management.
- Suitable for small industrial and commercial energy storage, light wood storage, light storage and other micro grid scenarios.



Highly integrated

Integrated energy storage battery, PCS temperature control and fire protection, water door magnetic and monitoring communication, fully control the system operation status and risks



Flexible parallel

With the technology of virtual synchronization machine features, it can realize the free machine connection and off-grid switching function of multiple units without communication lines



Save space

Using the door-installed embedded integrated air conditioning, improve the available space of the cabinet, the top structural integrity is better, the waterproof effect is good



Intelligent management

It can realize diversified functions such as system operation monitoring, energy management strategy formulation and remote equipment upgrade



Excellent protection

Optimize heat dissipation air duct to protect dust and rain; open the front and back doors for maintenance to facilitate multiple systems side by side and reduce the floor area



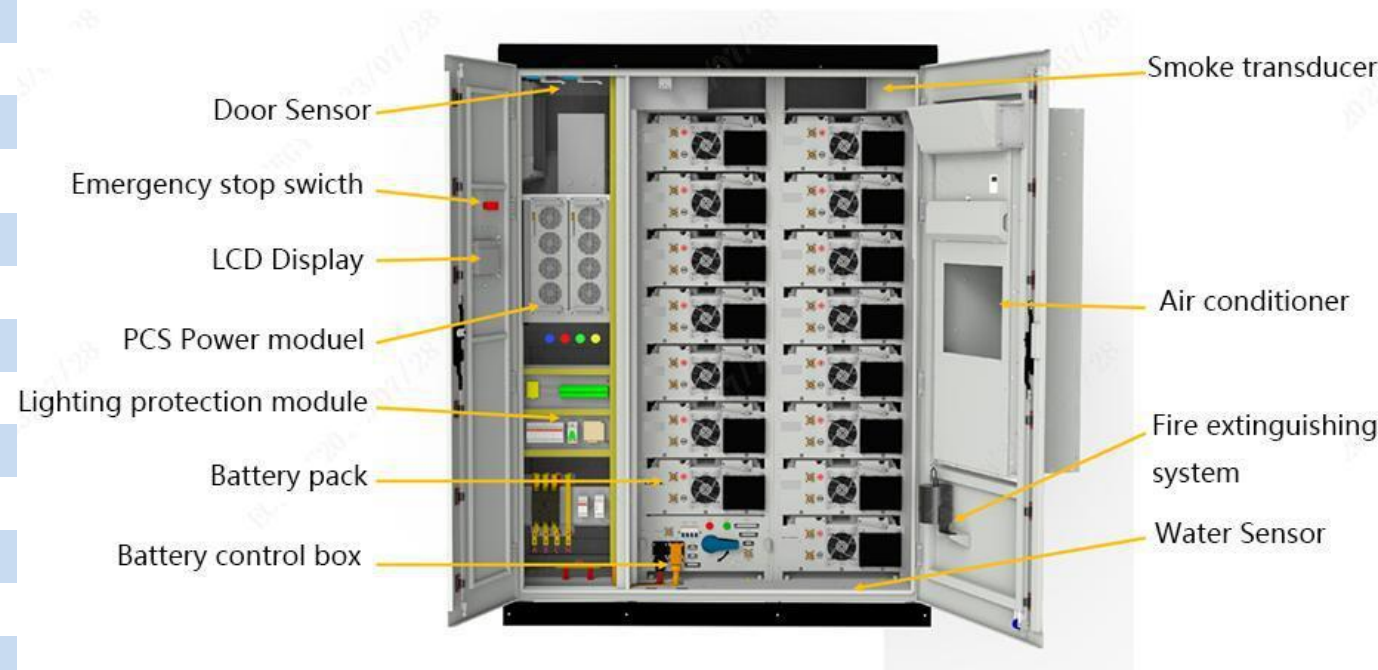
Various functions

Standardized structure design, photovoltaic charging module, off-grid switching module, power frequency transformer and other components can be selected for micro-grid and other scenarios, and integrated optical storage integrated system cabinet



Integrated energy storage cabinet

Model	50kW/100kWh	100kW/215kWh	250kW/500kWh
Battery parameters			
Battery rated energy storage capacity	107.52KWh	215.04KWh	516.096KWh
System rated voltage	384V	768V	614.4V
Battery type	Lithium iron phosphate battery		
Cell capacity	280Ah		
Battery pack series and parallel mode	1P "24S*5Pack	1P "24S*10Pack	1P "24S*8Pack
AC parameters			
Rated AC power	50kW	100kW	250kW
Rated AC current	72A	144A	360A
Rated AC voltage	400V3P+N+PE,50Hz		
Total current distortion	<3%		
Power factor	'-1 advance ~ + 1 lag		
Conventional parameters			
Protection	IP54		
Isolation method	Non-isolation (optional transformer)		
Working temperature	-25-60°C(derate above 45 C)		
Height above sea level	3000m(derate over 3000m)		
Communication interface	RS485/CAN2.0/Ethernet / dry contact		
Dimensions (W * D * H/mm)	1200*1200*2300	1200*1200*2300	3000 *1500 *2300
Weight	1800kg	2400kg	2500kg



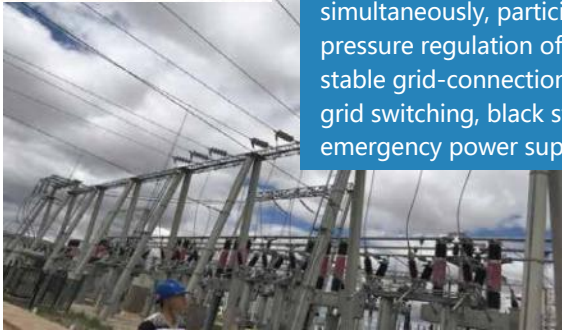
Project case - 180MW/720MWH energy storage



180MW/720MWH energy storage project

This project is the first battery energy storage test demonstration project approved by the National Energy Administration. The large-scale energy storage system in the network domain will soon become the largest commercial energy storage virtual power plant in China.

The energy storage system has the two-way adjusting ability. Multiple energy storage devices integrated with box-transformer operate simultaneously, participating in frequency and pressure regulation of the power system, realizing stable grid-connection, seamless on-grid and off-grid switching, black start, and providing backup emergency power supply function.



Industrial and Commercial Energy Storage Solutions (User Side)



The industrial and commercial distributed energy storage solution can be deployed in production-oriented enterprises/industrial site, commercial office buildings, charging stations and other places. It can effectively solve the problems of regional distribution network defects, peak power supply shortage and high power cost caused by increasing load capacity and increasing requirements on power supply quality, and other pain points such as difficult expansion, high expansion investment and long cycle. The peak-valley price mechanism can also be used to achieve peak cutting and peak valley filling and peak valley arbitrage.

Scheme features

Fast Response

Excellent system configuration and design, Fast response to multiple network commands

High efficiency fusion

EMS & PCS & liquid-cooled battery container, etc Independent development and integration of key equipment

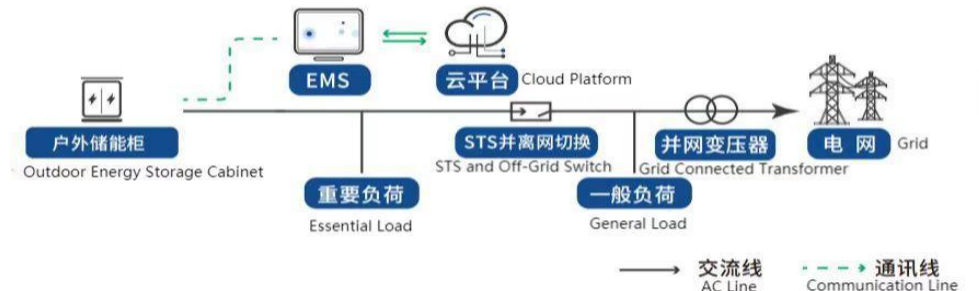
Concentrated Distribution

Standard container design, easy installation, short construction cycle

Scale Effect

Standardized system integration, easy expansion, good economic benefits

Topological Graph



Project case-A logistics center 500kW/1MWh energy storage system integration project



A logistics center 500kW/1MWh energy storage system integration project

This project will increase storage on the existing photovoltaic power generation system and strive to build an integrated optical storage system;

> Through intelligent scheduling of EMS energy management system, the energy storage system can store electricity when the power supply is greater than the demand, solve the problem of light abandonment and improve the consumption rate of new energy.

> Smooth the power fluctuations of the photovoltaic system and improve the power output quality.



Scheme features

Flexible Deployment

The system covers a small area and can be distributed. Centralized scheduling facilitates flexible placement

Remote Control

It can monitor the system running status remotely and realize unattended operation with high degree of automatic control of the system

Extreme Safety

Equipped with intelligent fire fighting system, automatic fire extinguishing, safe and reliable, quick response

Cost Effective

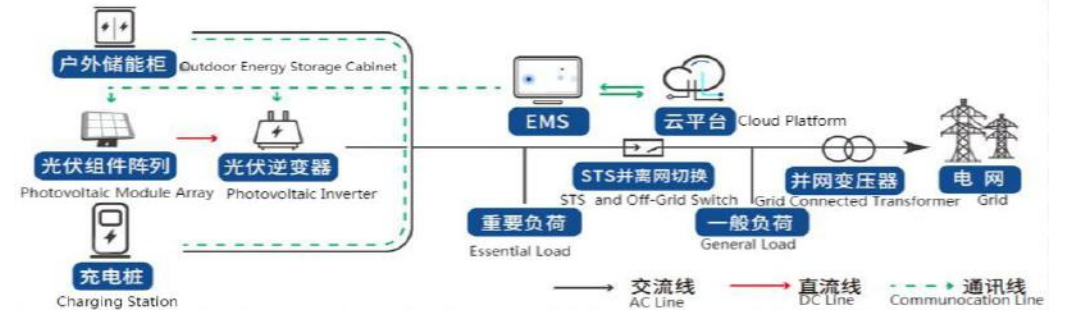
High efficiency PCS and battery string topology, The system small loss and good economy

Integrated Solution of Solar Energy Storage Charging Stations (User Side)



New energy vehicles are faced with insufficient deployment of charging facilities and poor availability; The charging demand does not match the power grid facilities, and the capacity increase is difficult and the cost is high. Long charging wait time and high charging cost. The integrated architecture of optical storage and charge realizes the ecological docking of photovoltaic, charging station and energy storage products, and is equipped with a smart energy operation and maintenance management platform to provide an integrated solution of optical storage and charge for charging stations. It not only meets the requirements of efficient, stable and safe charging, but also achieves double benefits of photovoltaic power generation and charging operation.

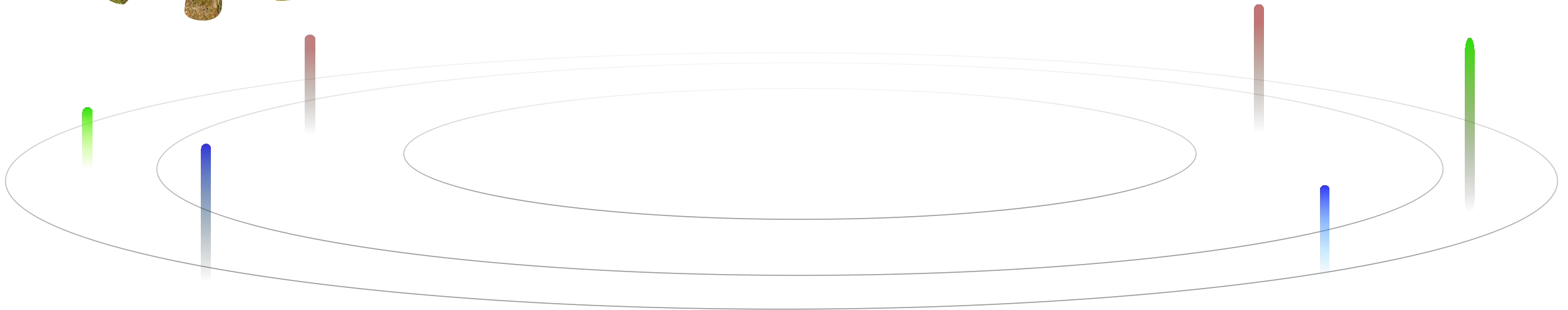
Topological Graph





04

Pull rod box Power Station



2400Wh-2000W LiFePO4 Pull rod box Power Station



Portable Power Station is fashion and convenient to carry. It can support power supply for many home appliances for emergency situation and can also meet the electricity demand of various outdoor operations and automobile tour.

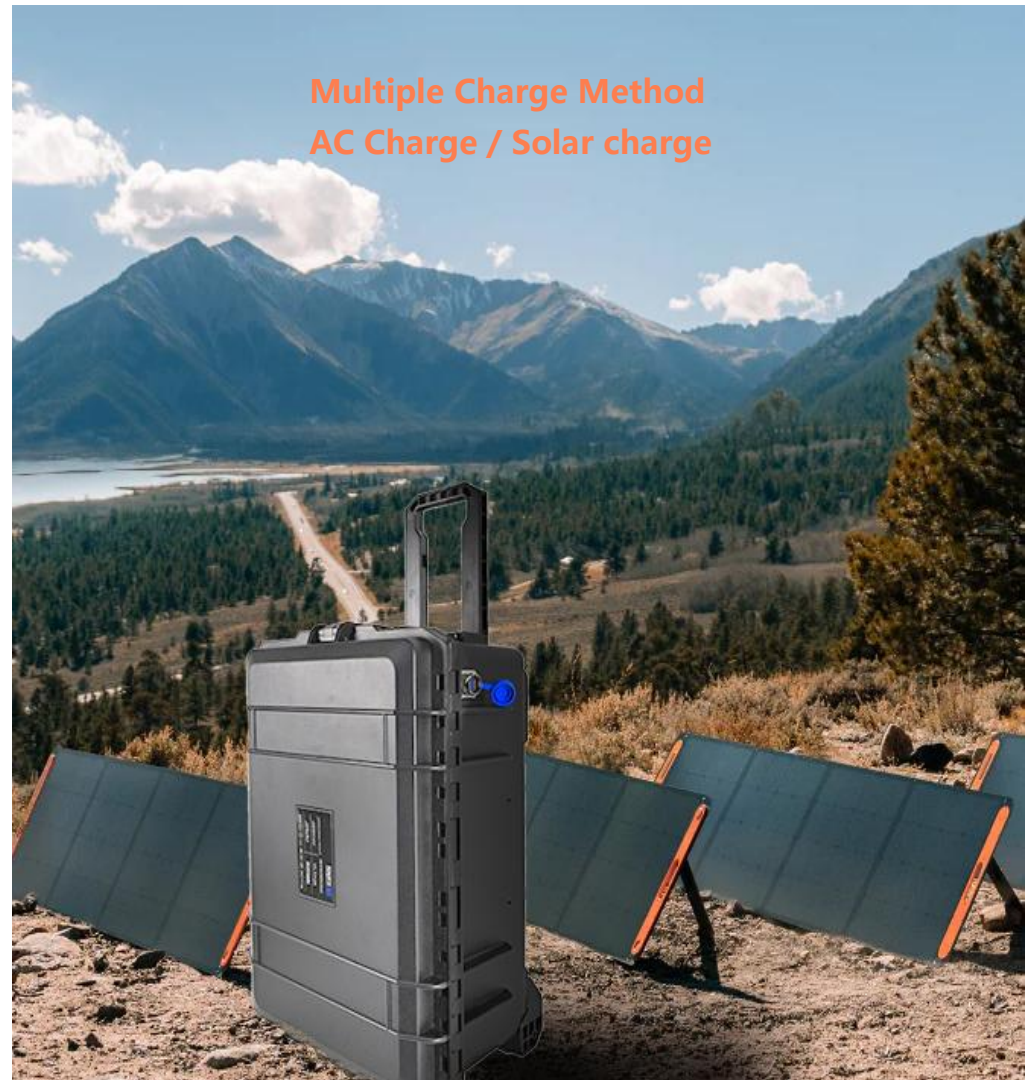
Wide applications



2400Wh-2000W LiFePO4 Pull rod box Power Station



- | | | |
|-------------|---------------------|---------------------|
| 1.AC Output | 6.12V Output | 11.AC Output Switch |
| 2.Type-C | 7.12V Output | 12.Main switch |
| 3.USB | 8. PV In | |
| 4.USB | 9. DC Input | |
| 5.AC Output | 10.DC Output Switch | |



2400Wh-2000W LiFePO4 Pull rod box Power Station

You can charge



Phones(16.75W)
119 Charges



Rice Cooker(300W)
6 Hours



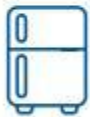
Fans(40W)
50 Hours



Lanterns(10W)
200 Hours



Laptops(60Wh)
33 Charges



Refrigerator(60W)
33 Hours



Heater(280W)
7 Hours



Voice Box(20W)
100 Hours

Battery parameters

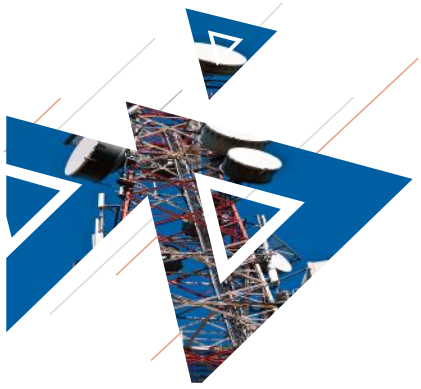
Nominal voltage	48V
Nominal capacity	50Ah
Power	2.4kWh
Battery type	Lithium iron phosphate
Communication(CAN / RS485)	RS485/RS232/Can
Cooling	Fan cooling
IP grade	IP54
Cycle times	> 4000 times
Dimension	575*421*287mm
Weight	40kg
Operation temperature	Charge : 0 ~ +55°C Discharge : -20 ~ +55°C
Certificate	CE、FCC、UL、PSE、RoHs、UN38.3、MSDS

Output parameters

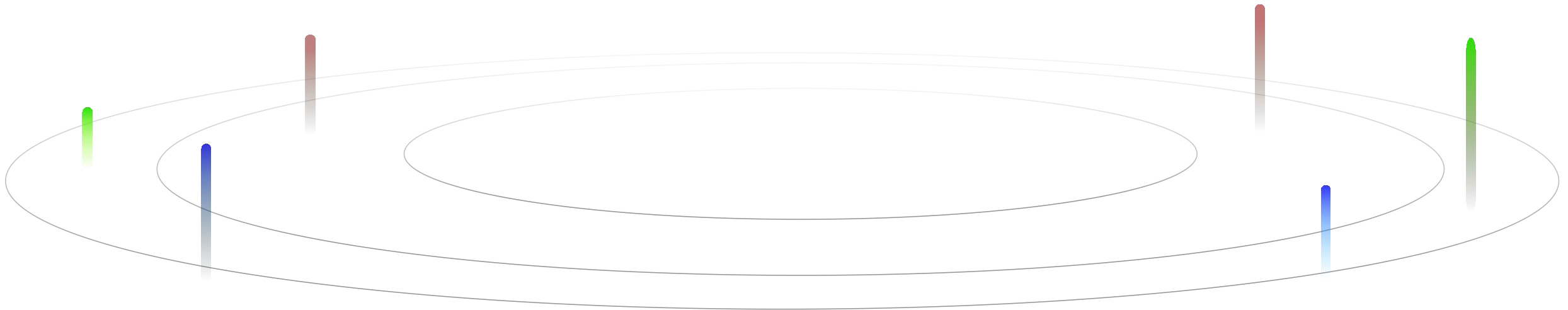
Continuous output power	2000W
Peak power	3000W
AC output	AC220V 50HZ
USB	5V/2A
Type-c	5V 2A
DC output	12VDC /20A*2

Input parameters

PV input	12-90V 600W
Charger	48V10A



05 Communication Base Station Backup Battery



Communication Base Station Backup Battery

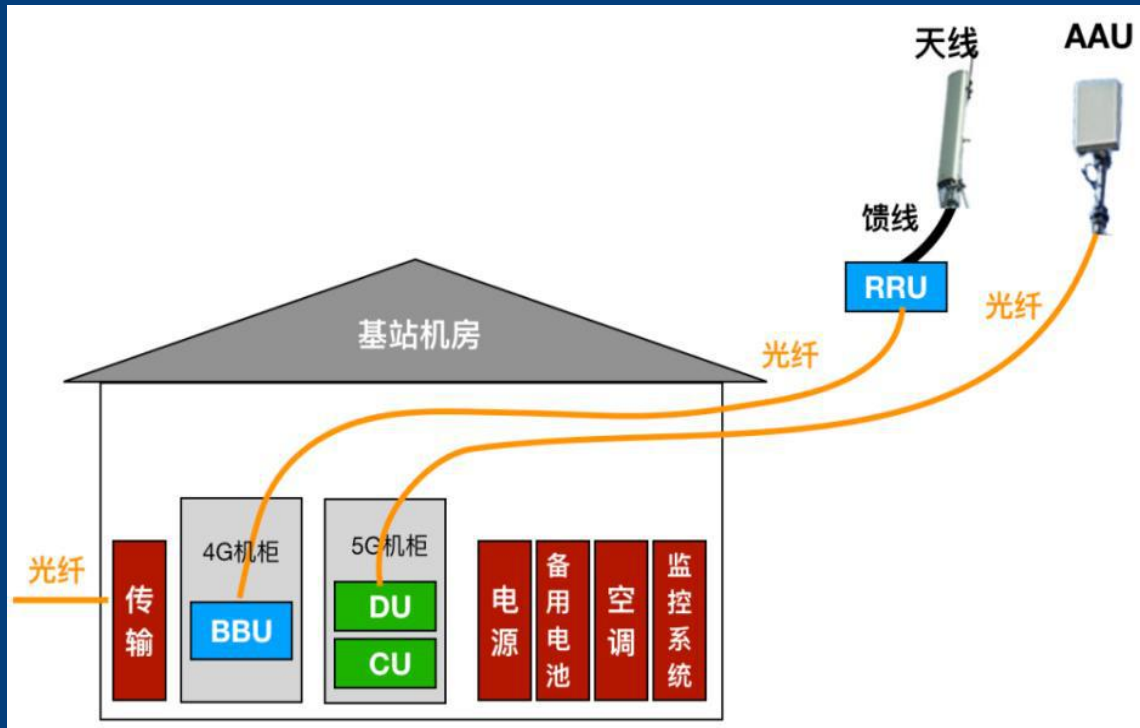
The standby power supply of the communication base station powers the communication equipment such as RRU and AAU at the end of the communication network.

It can meet the wall hanging, holding pole, corner steel tower and other application scenarios, support flag installation, flat back, landing and other installation methods.

It is widely used in access network equipment, remote exchange bureau, mobile communication equipment, transmission equipment, satellite ground station and microwave communication equipment and other communication fields.



Communication Base Station Backup Battery



Product characteristics

- The battery positive electrode is made of LiFePO₄ material, with good high and low temperature performance;
- Stable product performance, high charging efficiency ;
- Cycle life and long service life ;
- Built-in high-performance BMS battery tube system, with multiple protection functions ;
- Flexible configuration, multiple modules can be used in parallel, prolong the system power backup time;



Communication Base Station Backup Battery

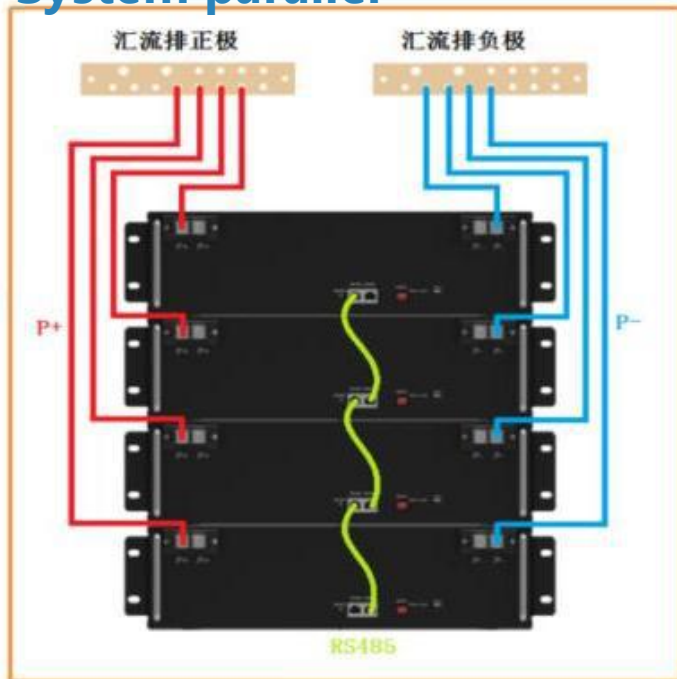
Product series



Rated voltage	51.2V	51.2V	51.2V	51.2V
Rated capacity	20Ah	50Ah	50Ah	100Ah
Rated energy	1024 Wh	2560Wh	2560 Wh	5120Wh
System operating voltage range	40~58.4V	40~58.4V	40~58.4V	40~58.4V
Maximum continuous charging current	20A	50A	50A	100A
Maximum continuous charging current	20A	50A	50A	100A
Standard charging current	10A	25A	25A	50A
Standard discharging current	10A	25A	25A	50A
Working temperature	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C
Communication	RS485 / CAN	CAN / RS485 / RS232	CAN / RS485	CAN / RS485
Dimension	375*380*115mm	375*380*263mm	448*348*200mm	442*396*132.5mm 442*386*240mm
Material	Iron (3U)	Iron (6U)	Aluminum (4.5U)	Iron (3U、5.5U)
Weight	10Kg	28Kg	28Kg	50Kg

Communication Base Station Backup Battery

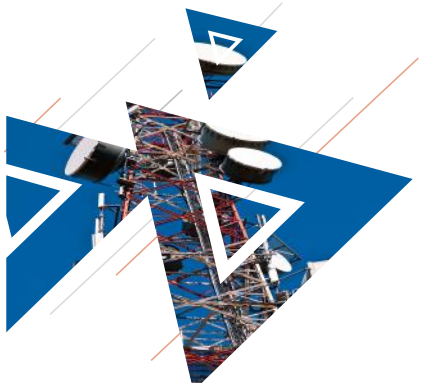
System parallel



Product characteristics

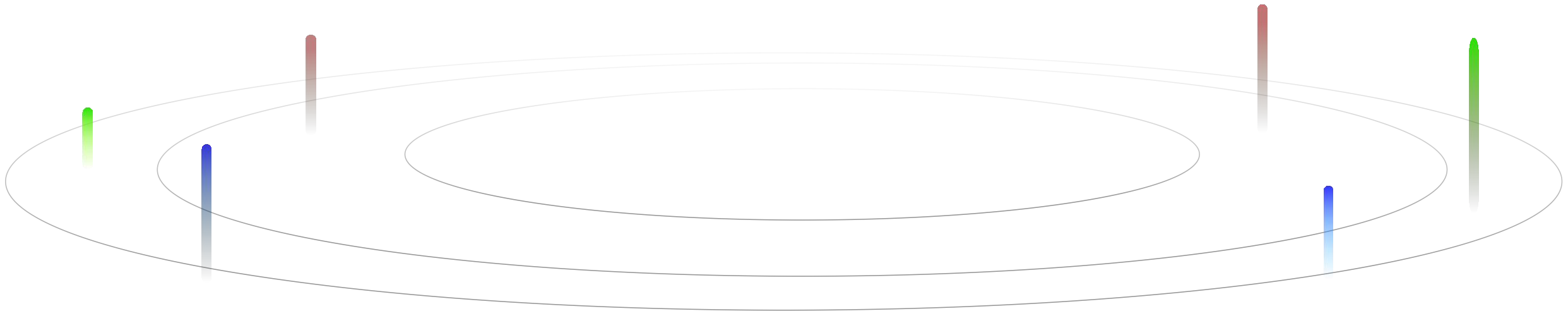
- Energy can be increased in parallel, and it is generally recommended that no more than 8 units are connected in parallel.
- Lithium battery pack has a special interface, which can realize fast connection and combination.

Rated voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Rated capacity	200Ah	300Ah	400Ah	500Ah	600Ah	700Ah	800Ah
Rated energy	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
System operating voltage range	40~58.4V	40~58.4V	40~58.4V	40~58.4V	40~58.4V	40~58.4V	40~58.4V
Maximum continuous charging current	200A	300A	400A	500A	600A	700A	800A
Maximum continuous charging current	200A	300A	400A	500A	600A	700A	800A
Standard charging current	100A	150A	200A	250A	300A	350A	400A
Standard discharging current	100A	150A	200A	250A	300A	350A	400A
Working temperature	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C	-20°C~+60°C
Communication	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN
Dimension	100Kg	150Kg	200Kg	250Kg	300Kg	350Kg	400Kg

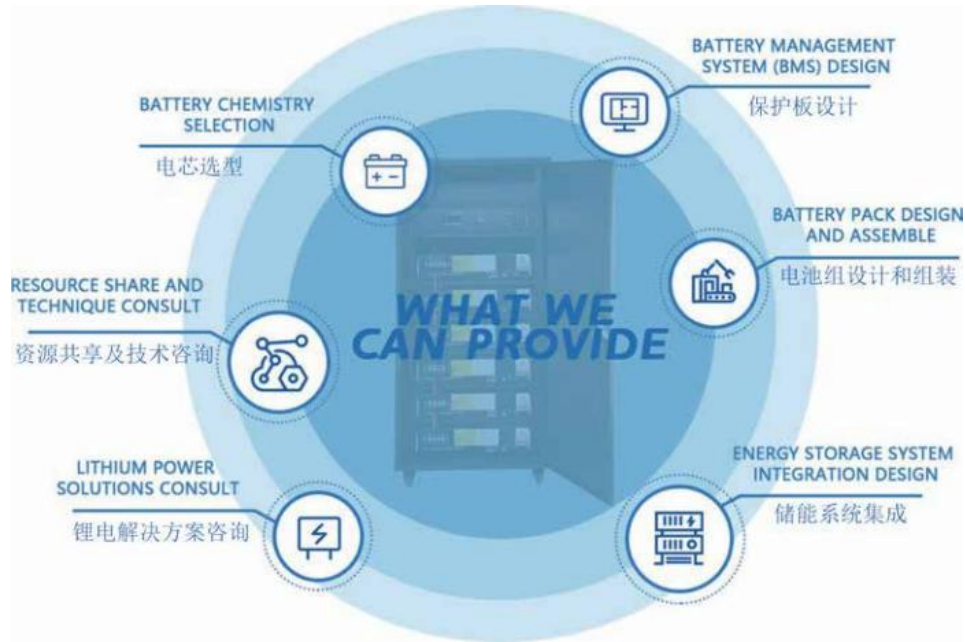


06

Customization Battery and system solution



Customization Battery and system solution

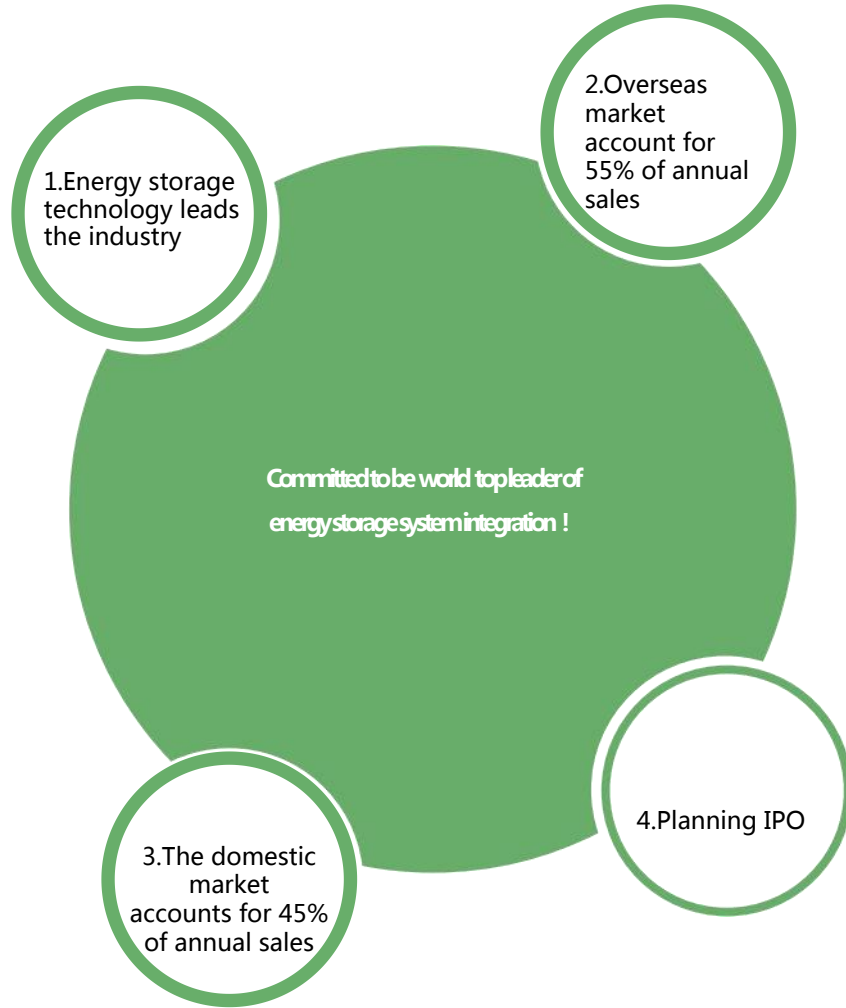


ECE Energy is a high-quality lithium battery manufacturer with professional R&D and design team. It has a complete set of equipment for lithium battery pack testing and production, and rich experience in ODM and OEM services. ECE Energy can accurately understand customers' personalized needs and quickly develop personalized solutions.

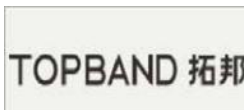
Model	ECE-CB422.4V280Ah
Rated voltage	422.4V
Rated capacity	280Ah
Rated energy	120KWh
System operating voltage range	380-465V
Maximum continuous charging current	300A
Maximum continuous discharge current	300A
Standard charging current	100A
Standard discharge current	100A
Operating temperature	-20°C ~ +60°C
Communication function	RS485
Battery size	1800*1225*700mm
Case material	Iron
Weight	1004kg
Model	ECE-CB51.2V1000Ah

Rated voltage	51.2V
Rated capacity	1000Ah
Rated energy	51200 Wh
System operating voltage range	40-58.4V
Maximum continuous charging current	350A
Maximum continuous discharge current	350A
Standard charging current	200A
Standard discharge current	200A
Operating temperature	-20°C ~ +60°C
Communication function	CAN
Battery size	970*846*631mm
Case material	Iron

Strategic plan



Partnership



Global Markets



■ ECE products are exported to more than 60 countries around the world, such as the United States, Canada, the United Kingdom, Germany, Japan, etc. ECE products are safe, reliable, stable and durable, favored by many customers