RAYSHELY POWER

Rayshely Intelligent Energy (Changxing) Co.,Ltd.

Room 503, 5th Floor, No 202 Jinlianqiao Road, Zhicheng Street,
Changxing County, Huzhou City, Zhejiang Province, China

info@rayshely-power.com Phone: +86 15557209111

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RAYSHELY POWER

All for Energy Independence.

Rayshely Intelligent Energy (Changxing) Co.,Ltd.

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About us / Advantages / Concept / Team / Qualifications

Company

About us

All for Energy Independence.

Rayshely Intelligent Energy (Changxing) Co.,Ltd. (referred to as Rayshely) is headquartered in Changxing County, Zhejiang Province. It integrates the research and development, production, manufacturing, system integration, and project development of new energy applications and microgrids. It is a provider of zero-carbon energy products and services.

Corporate Culture

Rayshely's corporate purpose is "To develop the application market technology for photovoltaic and clean energy, utilize clean energy, pursue harmonious ecology, and build an ideal home."

Our slogan is: "All for Energy Independence." We are deeply committed to renewable energy application technology, aiming to create an AI-based green energy management system, providing global users with "NetZero" renewable energy solutions.

Our vision is to build a comprehensive low-carbon industrial chain and economic eco system, making clean energy globally accessible, dispatchable, and affordable, ultimately positioning Rayshely as a major global supplier of renewable energy.

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Advantages

One-Stop New Energy Storage System Solutions and Services

15+

Research and Development Experience

30+

Professional Products

28+

Autonomous Intellectual Property

60+

R&D engineer

Technological Innovation and Internet of Things (IoT) Integration

Driven by Innovation: We are committed to innovation, focusing on the research and development of new energy battery management systems based on active balance, as well as battery prediction and early warning technologies. By integrating emerging technologies such as the Internet of Things (IoT) and big data, we build intelligent cloud platforms and provide customized, highly reliable intelligent hardware solutions.

Comprehensive Coverage and Full-spectrum Optimization

Aiming at industrial and commercial energy storage, residential energy storage, residential base station energy storage, and power grid source-side applications, we have independently developed five major terminal products suitable for various scenarios, which can meet the high-performance requirements in various application environments.

In-depth Industry Expertise

Over a Decade of Experience: The core management and technical leaders have more than ten years of experience in researching and analyzing the characteristics of lithium batteries, battery management, and active balance. They have a profound understanding of market pain points and needs, holding 28 patents of independent intellectual property rights and 8 different scientific and technological achievements.

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Cooperation Concept

Create Value for Customers,
Realize Personal Value

Positioning

Positioned in the new energy sector, we aim to become a benchmark enterprise in green energy storage technology!

Mission

Empowering green energy and co-creating a zero-carbon future!

Philosophy

Service as the foundation, quality at the core, and technology as the support!

Vision

To become your most satisfactory RESS&BESS and green energy application partner!

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Team Overview

A mature, reliable and experienced team

- Experts in power electronics and new energy: They are experts from top Chinese universities.

- Experts in electrochemistry and lithium batteries: They are leading experts from well - known Chinese universities.

- Experts in control theory and control engineering systems: They are well - known experts from top Chinese universities.

- Core R & D team: More than 80% of the core R & D team members hold a master's degree or higher, and the average industry experience is over 15 years.

- Entrepreneurial experience: The core team members have successful entrepreneurial experiences and rich product industrialization experiences.

- Company scale: The company has more than 200 employees, and over 30% of them are specifically engaged in R & D work.

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Honors and Qualifications

More than 28 independent intellectual property patents,
more than 8 various scientific and technological achievements

Core Technology

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Pack Series

1P16S

1P24S

1P48/52S

Adopting first-tier domestic brand cells: 16-series and 24-series air-cooled solutions, 48/52-series liquid-cooled solutions.

System integration of key materials

Cells

P C S

Air conditioning

BMS (Battery Management System) and EMS (Energy Management System) are self- developed; cells, PCS (Power Conversion System), and air conditioning

Diversification and Opportunities

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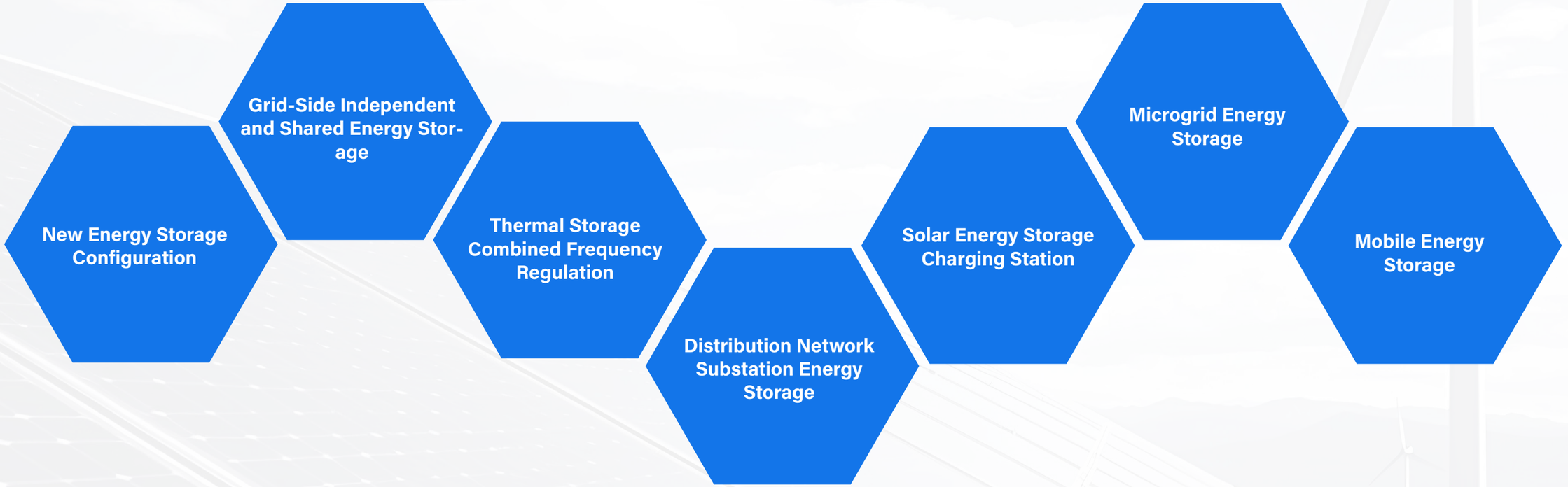
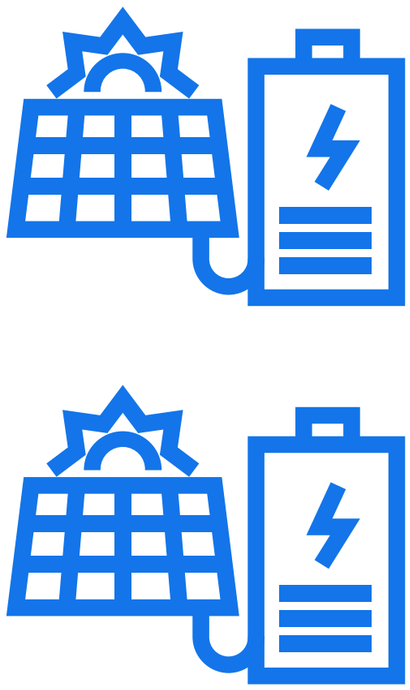
Currently, the main application scenarios of energy storage can be divided into grid-side energy storage power stations and distributed energy storage on the distribution network and user side. Specifically, there are mainly the following eight categories



From the perspective of technical routes, these can also be categorized into centralized, cluster-controlled, distributed-centralized, dispersed, and high-voltage direct connection types.

Diversification — Energy Storage Technology Paths



Multiple Technical Approaches Coexist

Development for Multiple Application Scenarios

Grid-Forming Applications

Higher Power Density (5MW)

Trends in the Development of Power Conversion Systems (PCS) for Energy Storage

High Reliability and Low Cost

Opportunity

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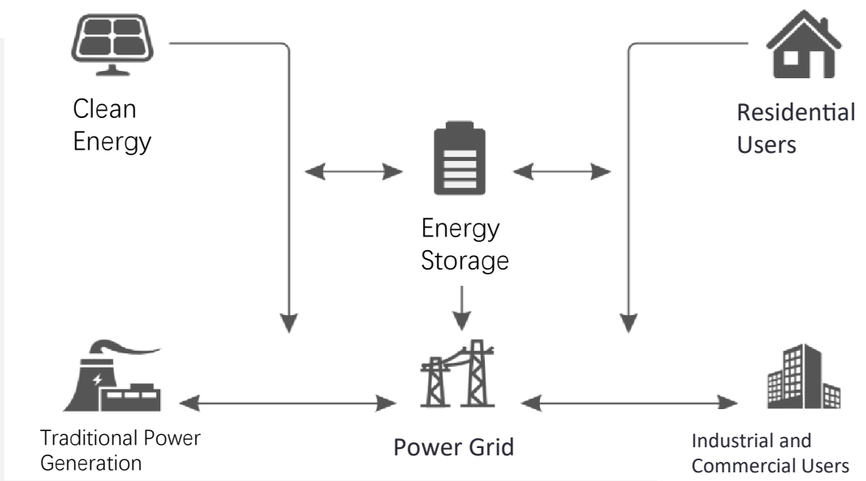
Generation Side

- **New Energy + Storage :** Smoothes power fluctuations
- **Thermal Power Plant Joint Frequency Regulation:** Rapid frequency regulation response
- **Black Start Power Source:** Storage as black start power source to support the grid。



Transmission Side:

- **Grid Support:** Multiple DC landing points in different regions provide strong support for HVDC transmission technology.

Distribution:

- **Distributed storage:** Enhances the ability to integrate large proportions of clean renewable energy into the grid.

User Side:

- **Peak Shaving and Valley Filling:** Utilize peak-to-valley price differences for arbitrage opportunities, with clear business models but requiring higher costs.
- **Demand Response Management:** Reduce user electricity bills through demand response management
- **Emergency Power Supply:** Provide high-quality continuous power supply for critical loads.

Energy storage has broad application scenarios in power generation, transmission, distribution, and consumption, serving as a core support for future intelligent and flexible grids.

Solutions

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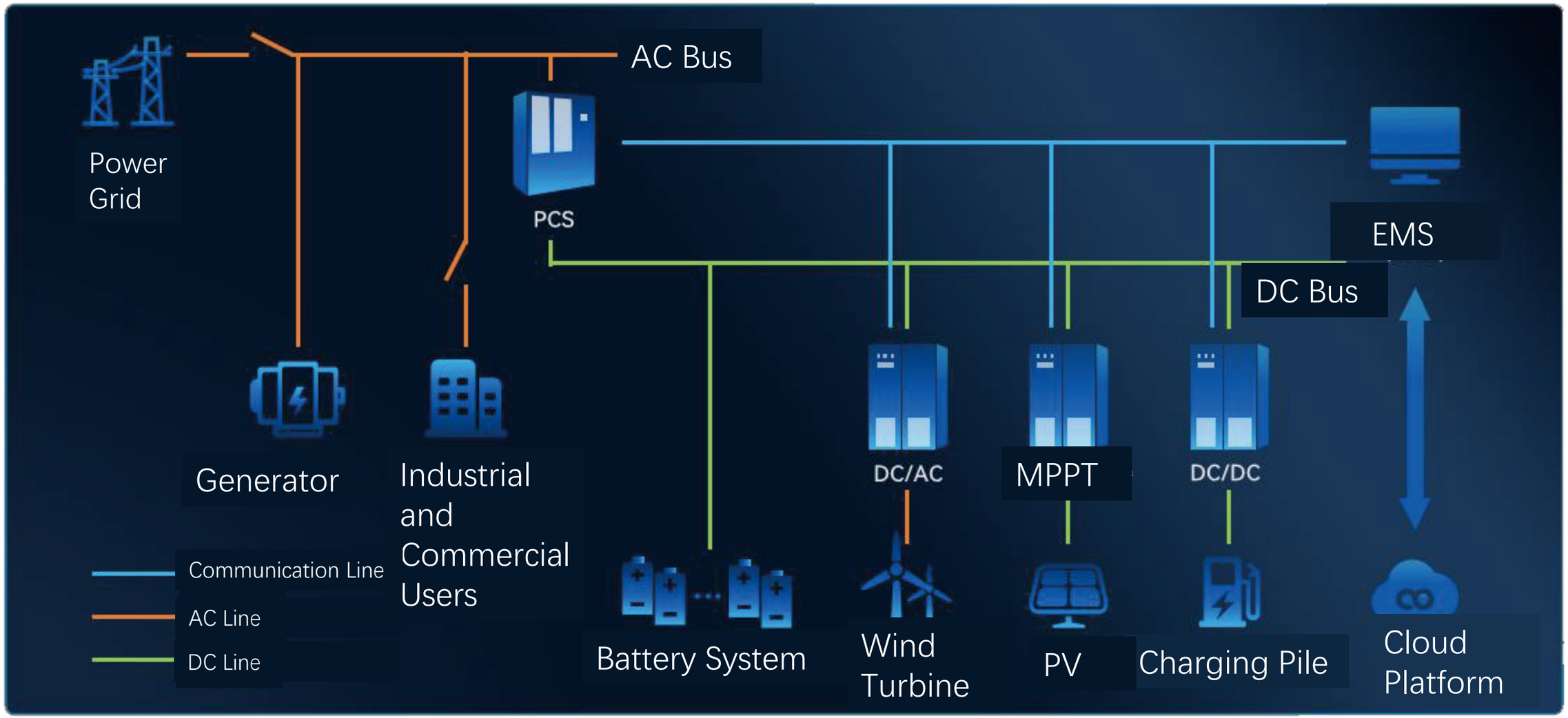

Standardized Intelligent Central Control System for Energy Storage

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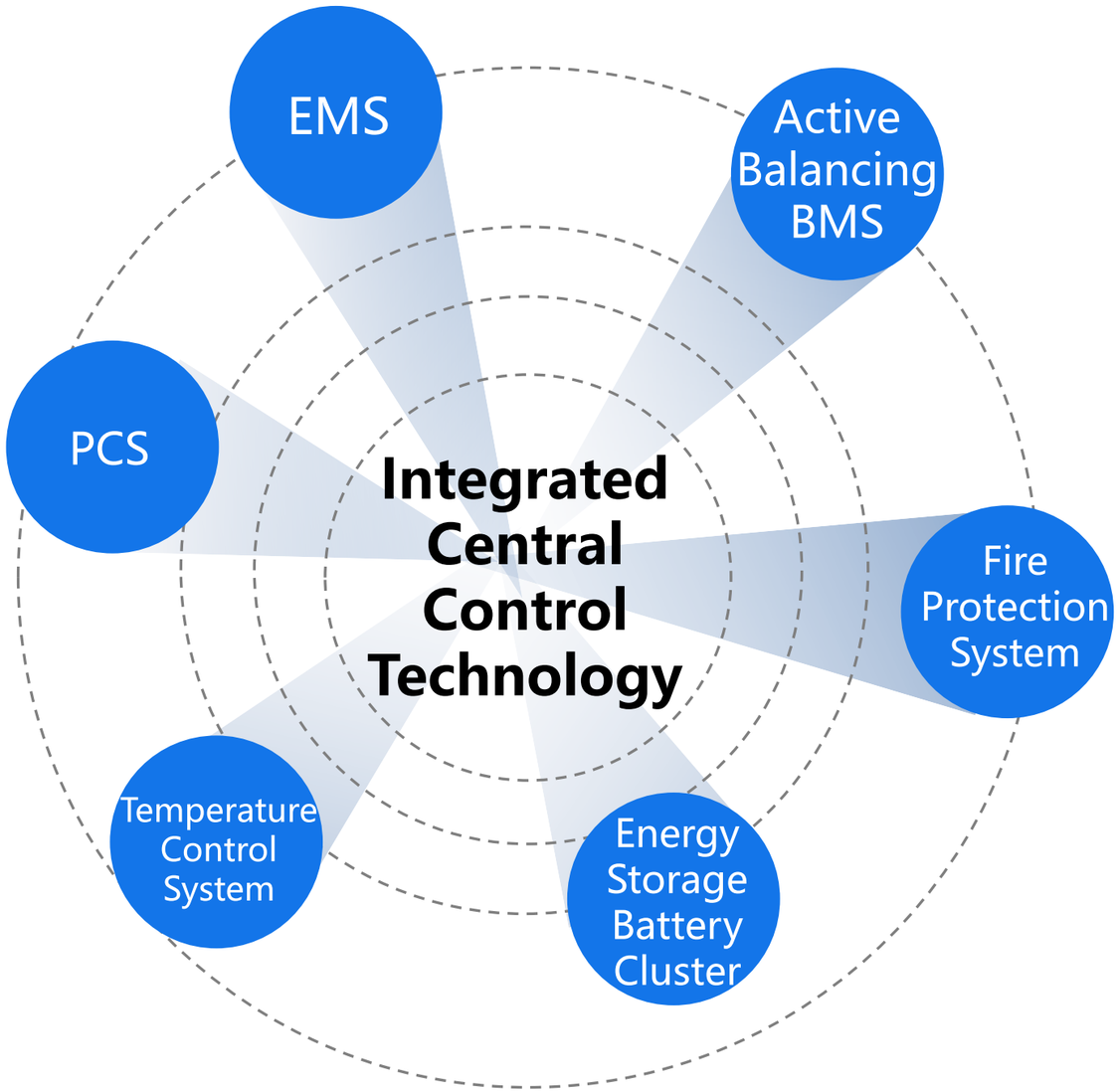
This system integrates dedicated energy storage batteries, active balancing BMS, PCS modules, temperature control and fire protection, and an intelligent cloud platform. It supports remote monitoring and third-party platform scheduling, enabling functions such as peak shaving and valley filling, load shedding and power supply assurance, emergency backup power, and temporary capacity expansion.



Infinite Expansion Capability

Active Balancing BMS

Modular Design

Intelligent Cloud System

Real-Time Monitoring

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Combining emerging technologies such as IoT and big data, a smart cloud-based remote management platform is constructed to provide the following features:

Remote Monitoring | **Unattended Operation** | **Operational Analysis** | **Pre-warning Notifications**

Real-Time Device Monitoring

- PC Real-Time Data Monitoring
- WeChat Mini Program Real - Time Data Monitoring

Product Equipment Management

- Equipment Statistics
- Alarm Management
- Equipment Management
- User Permission Management

System Parameter Configuration

- Sub-control Parameter Configuration
- Balancing Parameter Configuration
- Voltage and Temperature Calibration

Abnormal Alarm Information

- Voltage and Temperature Abnormal Alarm
- Communication Failure Alarm
- Balancing Failure Alarm
- Web and SMS Alarms

Device GPS Location Inquiry

- Real-Time Device Location Inquiry
- Historical Device Trajectory Inquiry

Historical Data Inquiry

- Voltage, Temperature, and Consistency Information Inquiry
- Alarm Information Inquiry

Full-Stack High Safety Design

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Cell and Components

Top-Tier Cell Brands

Battery Management

Precise Thermal Management

Electrical Safety

Insulation Monitoring
Leakage Current Protection
Tiered Power Electronics Management

Operation and Maintenance Safety

Data Acquisition
Remote Visual O&M

Construction Safety

Standardized Construction
Fireproof Partitioning

Cell-Level Fire Safety Design

Cell-Level Fire Protection
Combined Early Warning and Fire Protection

02

Distributed ES Cabinet / Container ES Cabinet

C&I-ESS

Low-power Emergency Backup Solution

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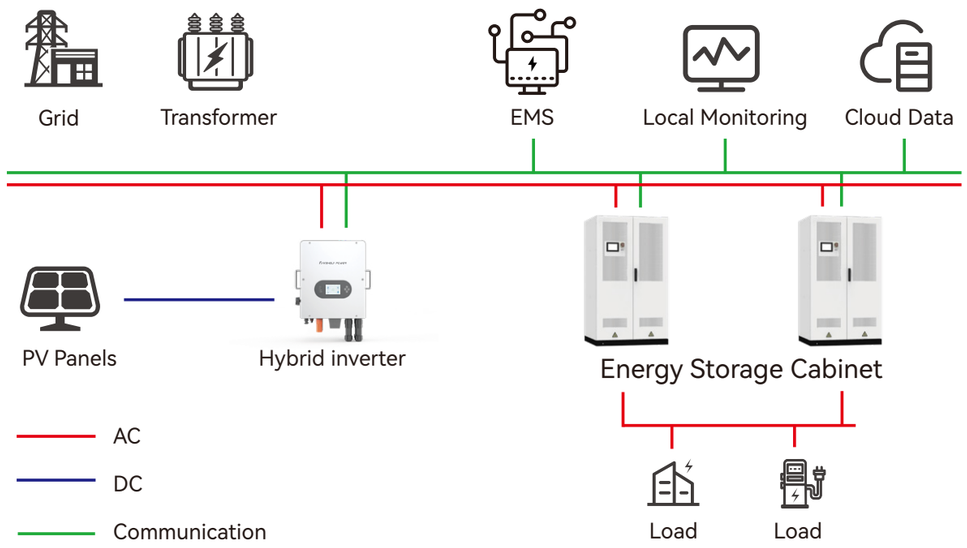
AC Coupling Architecture



● Load

Total load power≤300kW (linear load);

● Advantage

Flexible configuration, easy capacity expansion, suitable for on/off-grid systems;

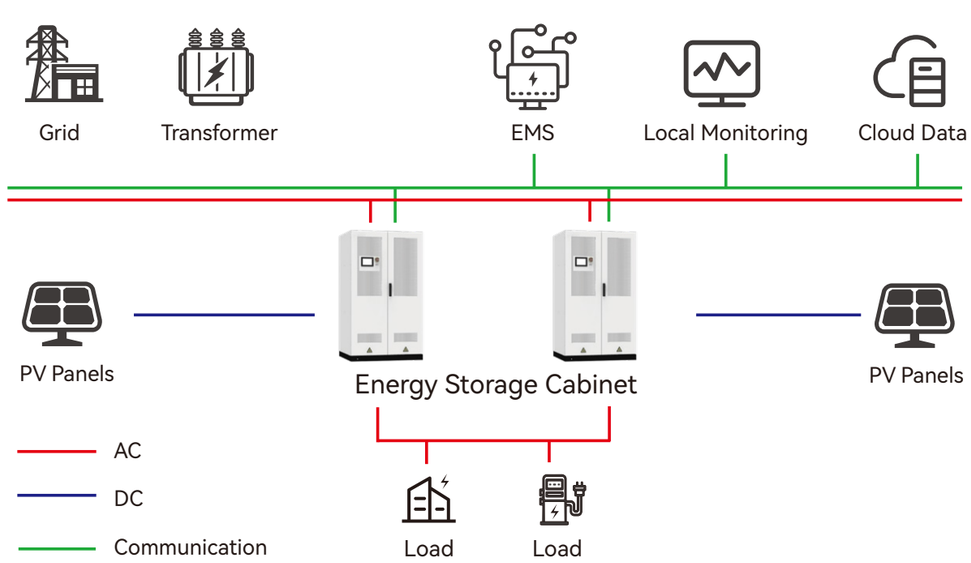
● Application

Applicable in scenarios with no power supply / unstable power supply;

● Value

backup power supply, improving PV self-generation&self-consumption rate to save electricity cost.

DC Coupling Architecture



● Load

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backup power supply, improving PV self-generation&self-consumption rate to save electricity cost.

High-power Emergency Backup Solution

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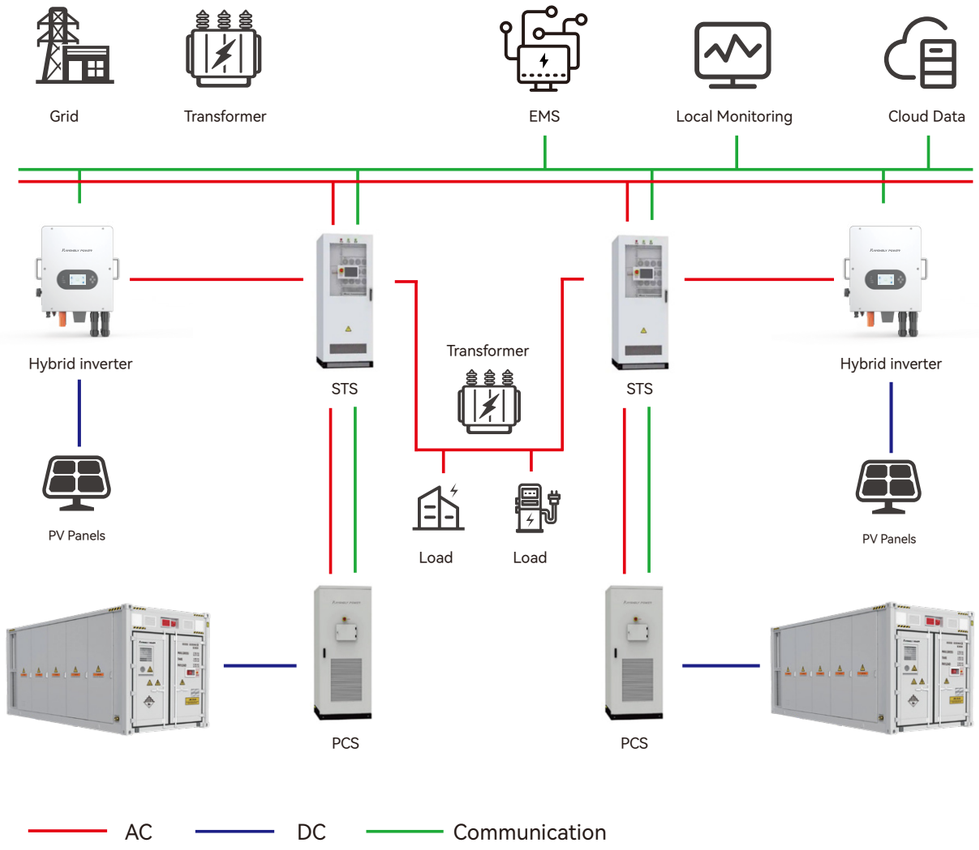
AC Coupling Architecture



- **Load**

Total load power≤300kW (linear load);

- **Advantage**

Large capacity suitable for large loads and on/off-grid systems;

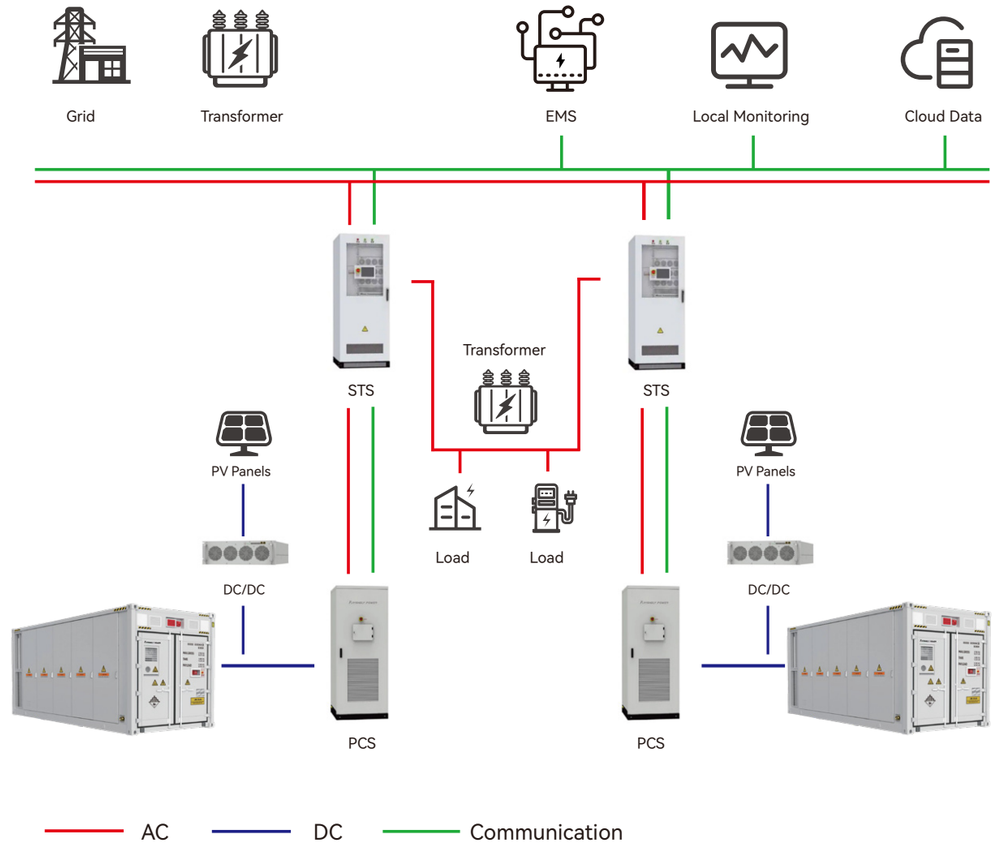
- **Application**

Applicable in scenarios with no power supply / unstable power supply;

- **Value**

backup power supply, improving PV self-generation&self-consumption rate to save electricity cost.

DC Coupling Architecture



- **Load**

Total load power≤300kW (linear load);

- **Advantage**

Large capacity suitable for large loads and on/off-grid systems;

- **Application**

Applicable in scenarios with no power supply / unstable power supply;

- **Value**

backup power supply, improving PV self-generation&self-consumption rate to save electricity cost.

Wind&Solar&Diesel Complementary Solution

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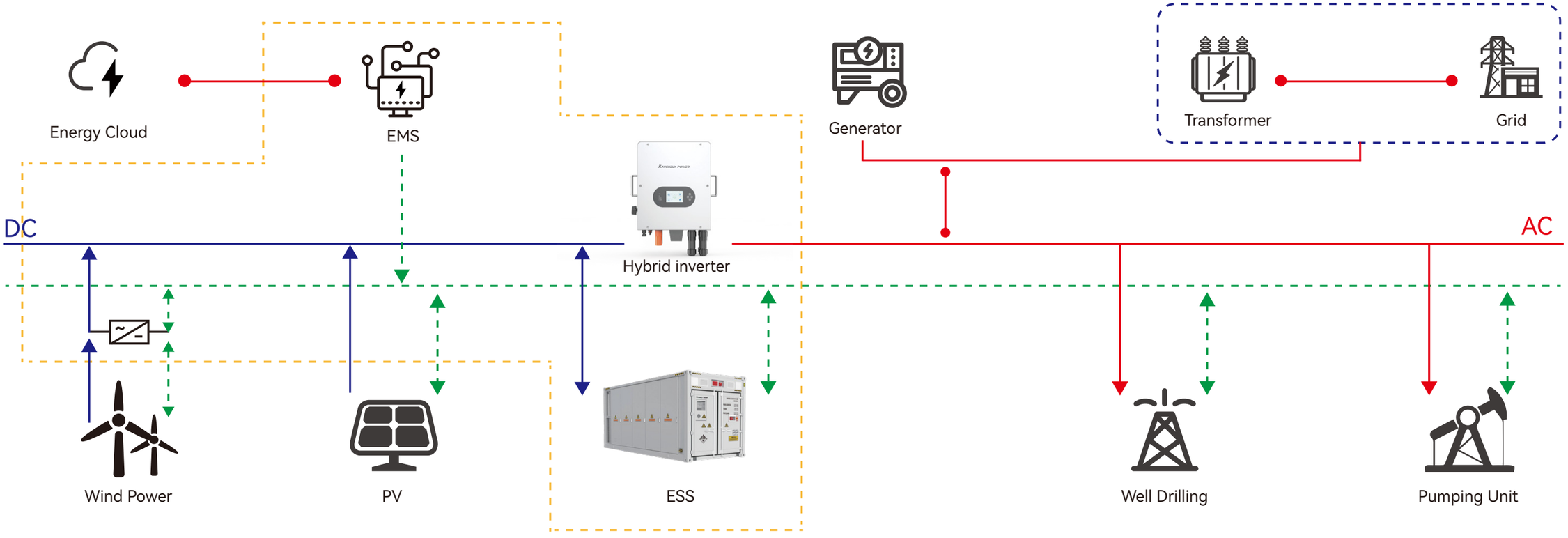
AC/DC Hybrid Coupling Architecture



- **Load**

50~100kW/150~300kW for single unit; 300kW is achievable by hand-in-hand parallel connection, with a capacity of up to 900kWh;

- **Advantage**

All-in-one, wide temperature range, safe and reliable, smart management, simple installation and operation;

- **Application**

Oilfields, mines, off-grid rural areas, islands;

- **Value**

Energy-saving, environmentally friendly, reducing oil extraction costs, providing reliable backup power; reducing installation complexity and project volume.

HJESLFP

C&I ES Battery Cluster

120Ah

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

Dual-mode power guarantee: Integrate a high-power emergency power supply system, support seamless grid switching, and quickly activate the off-grid mode at the moment of power outage to ensure the continuous and stable operation of critical loads. Flexible customization ability: Through the patented modular intelligent plug-in technology, power configuration schemes can be quickly customized according to the needs of different scenarios, realizing the flexible expansion and upgrade of system functions.

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Single Module Parameters

Item	HJESLFP-38240	HJESLFP-76120
Cell Type	LFP48173170E-120Ah	LFP48173170E-120Ah
Combination	2P12S	1P24S
Nominal Voltage (V)	38.4	76.8
Nominal Capacity (Ah)	240	120
Nominal Energy (kWh)	9.216	9.216
Standard Charge current (A)	120(0.5C)A	120(1C)A
Maximum Charge current (A)	150(0.625C)A@5S	150(1.25C)A@5S
Standard Discharge Current (A)	120(0.5C)A	120(1C)A
Maximum Discharge Current (A)	150(0.625C)A@5S	150(1.25C)A@5S
Cooling Method	Natural Air Cooling	Forced Air Cooling
Operating Voltage (V)	33.6~43.2 V	67.2~86.4 V
Dimension (W*D*H)(mm)	468 x642 x202 mm	468 x 642 x 202 mm
Weight (kg)	90(+1.5)kg	90(+1.5)kg

Battery Cluster Parameters

Item	HJESLFP-38240	HJESLFP-76120	HJESLFP-38240 1500V	HJESLFP-76120 1500V
Cell Type	LFP48173170E-120Ah	LFP48173170E-120Ah	LFP48173170E-120Ah	LFP48173170E-120Ah
Module Type	HJESLFP-38240	HJESLFP-76120	HJESLFP-38240	HJESLFP-76120
Combination	2P(192S~240S)	1P(192S~240S)	2P(348S~420S)	1P(360S~408S)
Nominal Voltage (V)	614.4~768	614.4~768	1113.6~1344	1152~1305.6
Nominal Capacity(Ah)	240	120	240	120
Nominal Energy (kWh)	147.46~184.32	73.73~92.16	267.26~322.56	138.24~156.67
Std. Charge Current (A)	120(0.5C)	120(1C)	120(0.5C)	120(1C)
Max. Charge Current (A)@5S	150(0.625C)	150(1.25C)	150(0.625C)	150(1.25C)
Std. Discharge Current (A)	120(0.5C)	120(1C)	120(0.5C)	120(1C)
Max. Discharge Current (A)	150(0.625C)	150(1.25C)	150(0.625C)	150(1.25C)
Operating Voltage (V)	500~850 V	500~850 V	950~1500 V	950~1500 V
Dimension(W*D*H)(mm)	1086x732.5x2220	551x732.5x2270	2172x732.5x2014	1083x732.5x2014
Weight (kg)	≤1900 kg	≤950 kg	≤ 3550 kg	≤ 1800 kg

Balance

C&I ES Battery Cluster

280Ah

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

Balance-W·ONE

Balance-Flow·α

Dual-mode power guarantee: Integrate a high-power emergency power supply system, support seamless grid switching, and quickly activate the off-grid mode at the moment of power outage to ensure the continuous and stable operation of critical loads. Flexible customization ability: Through the patented modular intelligent plug-in technology, power configuration schemes can be quickly customized according to the needs of different scenarios, realizing the flexible expansion and upgrade of system functions.

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Single Module Parameters

Item	Balance-W·ONE	Balance-Flow·α
Cell Type	LFP71173205E-280Ah	LFP71173205E-280Ah
Combination	1P16S	1P48S
Nominal Voltage (V)	51.2	153.6
Nominal Capacity (Ah)	280	280
Nominal Energy (kWh)	14.336	43.008
Standard Charge current (A)	140A	140A
Maximum Charge current (A)	160A	160A
Standard Discharge Current (A)	140A	140A
Maximum Discharge Current (A)	160A	160A
Cooling Method	Forced Air Cooling	Liquid Cooling
Operating Voltage (V)	44.8~56.8 V	134.4~170.4 V
Dimension (W*D*H)(mm)	376 x885 x238 mm	810 x1094x250 mm
Weight (kg)	108(±2)kg	295(±2)kg

Battery Cluster Parameters

Item	Balance-W·ONE		Balance-Flow·α
Cell Type	LFP71173205E-280Ah	LFP71173205E-280Ah	LFP71173205E-280Ah
Combination	1P240S	1P416S	1P384S
Nominal Voltage (V)	768 V	1331.2 V	1228.8 V
Nominal Capacity(Ah)	280 Ah	280 Ah	280 Ah
Nominal Energy (kWh)	215.04 kWh	372.736 kWh	344.064 kWh
Charge/Discharge Ratio	0.5 Cp	0.5 Cp	0.5 Cp
Operating Voltage (V)	672~852 V	1164.8~1476.8 V	1075.2~1363.2 V
Operating Humidity Range	0~95%	0~95%	0~95%
Cooling Method	Forced Air Cooling	Forced Air Cooling	Liquid Cooling
IP Level	IP21	IP21	IP56
Dimension (W*D*H)(mm)	894 x946x2088	945x1334 x2334	914x1100x2300
Weight (kg)	1850(+20)kg	3000(+20)kg	2500(+20)kg

Monet-50TS

Outdoor Cabinet ESS

50KW/100KWh

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

The outdoor distributed industrial and commercial energy storage cabinets adopt a modular design, which can be flexibly combined and installed according to different application scenarios and requirements, without being restricted by the site. Whether it is on the roof of an industrial plant, in the parking lot of a commercial building, or outside the computer room of a data center, the energy storage cabinets can be conveniently deployed to achieve the storage and utilization of electrical energy.

Item	Monet-50TS (DC50)(100kwh)
Battery rated capacity	100kWh
Battery rated voltage	844.8V
Battery voltage range	739.2V~950.4V
Battery type	Lithium Iron Phosphate battery(LFP)
Battery cell capacity	120Ah
Series of Battery	1p*24S*11S
Max charge and discharge current	60A
Photovoltaic rated capacity	50kW
Photovoltaic voltage range	200~550V
Rated AC power	5OkW
Rated AC current	72A
Rated AC voltage	400V,3W+N+PE/3W+PE
Rated AC frequency	50/60Hz
THDI	<3% (Rated power)
Power Factor	-1leading to+1 lagging
THDU	<3% (Linear Load)
Degree of protection	IP54
Protective Class	I
Isolation mode	No-Isolation(Adding isolation transformer is optional)
Shutdown self-discharge	<100W(Without transformer)
Display	LCD
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	25℃ to +60℃(with derating at temperatures above 45℃)
Cooling mode	Intelliqent air-cooled
Altitude	3000m(>3000m reduction)
Communication interface	CAN/Ethernet/485
Size (W*D*H)	1300*1030*2100mm
Weight (approx.)	2150kg

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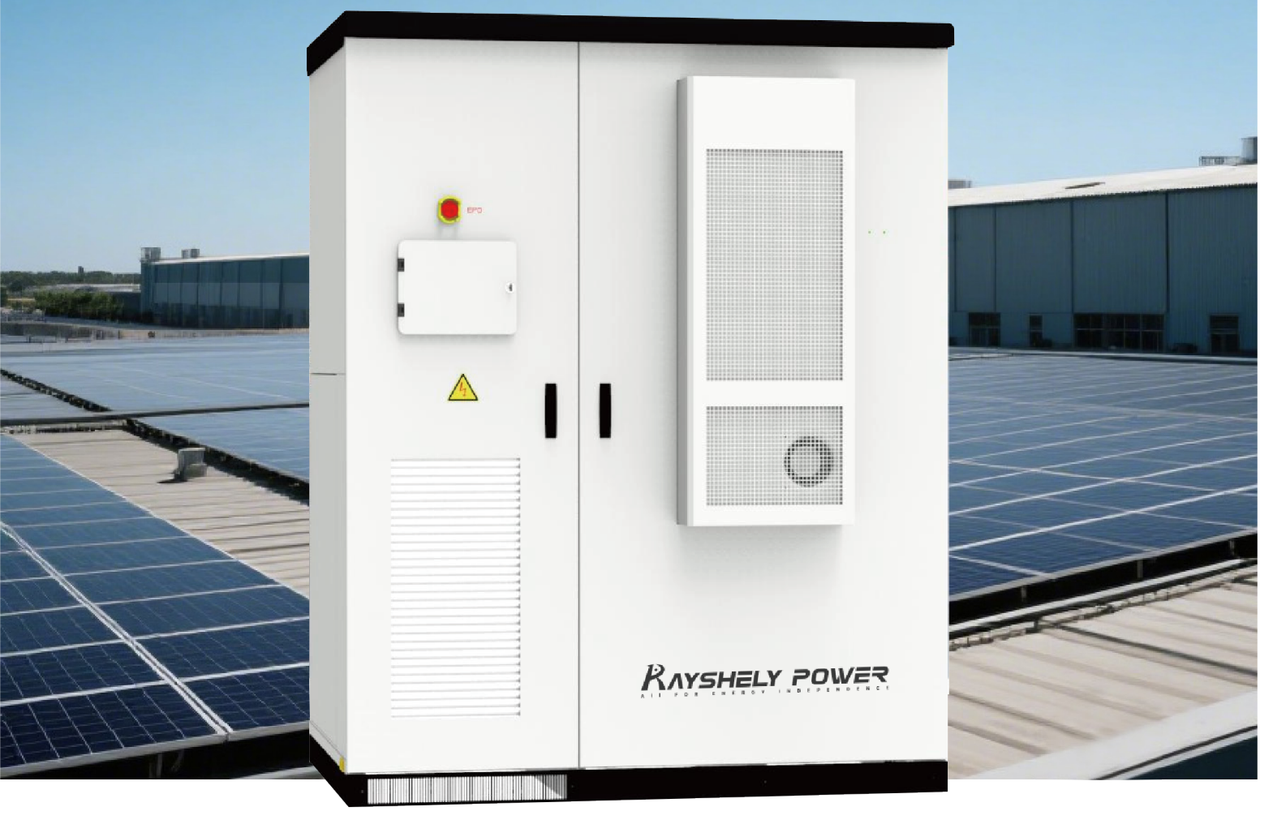
Monet-100TS

Outdoor Cabinet ESS

100KW/215KWh

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation



The outdoor distributed industrial and commercial energy storage cabinets adopt a modular design, which can be flexibly combined and installed according to different application scenarios and requirements, without being restricted by the site. Whether it is on the roof of an industrial plant, in the parking lot of a commercial building, or outside the computer room of a data center, the energy storage cabinets can be conveniently deployed to achieve the storage and utilization of electrical energy.

Item	Monet-100TS (DC100)(215kwh)
Battery rated capacity	215kWh
System rated voltage	768V
System voltage range	672V~864V
Battery Type	Lithium iron phosphate battery (LFP)
Battery pack series and parallel connection	1P*20S*12S
Maximum charge and discharge current	140A
Rated AC power	100kw
Rated AC current	144A
Rated AC voltage	400V,3W+N+PE/3W+PE
Rated AC frequency	50/60Hz
Current total harmonic distortion rate THDI	<5% (rated power)
power factor	-1 lead~+1 lag
Voltage total harmonic distortion THDU	<3% (linear load)
degree of protection	IP54
Protection level	I
Isolation method	Transformer isolation
Power consumption during shutdown	<100VV (without transformer)
Display	Touch LCD touch screen
Relative humidity	0~95%(no condensation)
Noise	Less than 78dB
Ambient temperature	-25℃℃~60℃(Derating above 45°C)
Cooling method	Intelligent air cooling
Altitude	2000m(over 2000m derating)
BMS Communication	CAN
EMS communication	Ethernet/ 485
Dimensions (W*D*H)	1800*1200*2300mm
Weight (approx.)	3000kg

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RS_EIB-P125_261

125kW/261kWh

Liquid-cooled Integrated ESS

Equipped with 8,000 cycles ultra long life cells.

Safe and Reliable | Premium Quality Assurance | Intelligent BMS | Comprehensive Service

For industrial and commercial energy storage scenarios, it can be connected to the power grid for independent operation, achieving peak shaving and valley filling, frequency and peak regulation, and power quality management (harmonics/reactive power/-three-phase unbalance). It can also form a microgrid with new energy sources such as wind and solar to improve energy efficiency, power supply reliability, and contribute to green environmental protection.

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Item		Parameters
Battery Type		LFP
Cell Specification		3.2V, 314Ah
Grouping Method		1P260S
Rated Capacity		261kWh
Rated Voltage (V)		832Vdc
Voltage Range (V)		728~949Vdc
Charging current	Rated	157A
	Max	200A
Discharging current	Rated	157A
	Max	200A
Cycle Life		⩾8000 (0.5C, 90%DOD, 70%SOH)
Rated Grid Voltage (V)		230/400V, 3P+N+PE
Rated Grid Frequency (Hz)		50Hz
Rated Output Power (kW)		125kW
Maximum Output Current (A)		200A
Power Factor		0.99
System Efficiency		89%
Number of Parallel Cabinets		up to 10 units in parallel.
Wiring Mode (In/Out)		bottom cable entry/exit
Battery Communication		CAN
Data Communication		Ethernet/RS485
Liquid Cooling Unit Communication		RS485
DC/AC Overvoltage/Undervoltage Protection		yes
DC/AC Overcurrent Protection		yes
SOC Alarm		yes
Cell Overvoltage/Undervoltage Protection		yes
Overload Protection		yes
High Temperature Alarm		yes
Smoke Sensing Alarm		yes
Fire Extinguishing Device		yes
DC Fuse		yes
AC Lightning Protection		yes
Humidity		RH⩽95% (non-condensing)
Storage Temperature		-20℃~+35℃ (SOC20%~50%)
Application Altitude		⩽3000m
Dimensions (W×D×H)		1000*1350*2320mm
Weight		2600kg
Protection Level (IP Code)		IP54
Cooling Method		Liquid cooling
Coolant		50% water + 50% ethylene glycol solution

System Composition

Lithium iron phosphate battery:
Using 314Ah long-cycle-life cells, equipped with 5 liquid-cooled battery boxes, with a total power capacity of 261kWh.

Main control cabinet:
Controls the high-voltage circuit, effectively protects the battery system, and realizes system monitoring and multi-cluster parallel control.

BMS (Battery Management System):
Monitors battery temperature, voltage, and current information in real time, formulates energy storage system control strategies to maximize safe battery operation, and enables network connection and remote monitoring of the energy storage system.

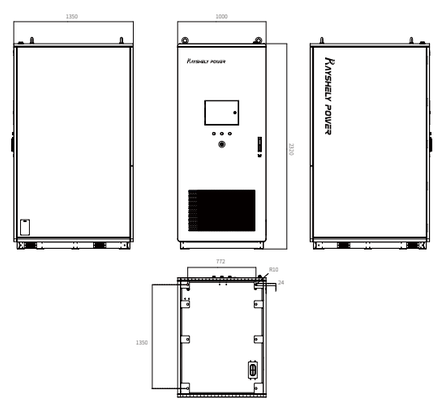
Thermal management system:
Adopts active liquid-cooling and intelligent thermal management strategies to precisely control temperature, achieve effective temperature control of the battery, reduce cell temperature rise and temperature difference, and extend the service life of the energy storage system.

Fire protection system:
Composed of smoke detectors, temperature detectors, and perfluorohexanone fire extinguishers.

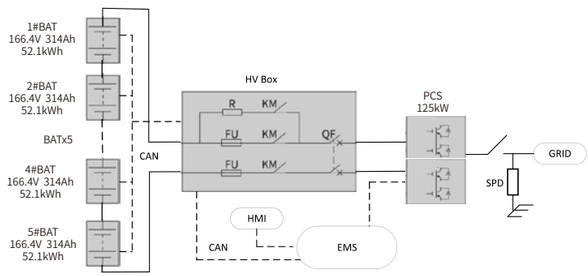
PCS (Power Conversion System):
Energy storage converter that controls active power and adjusts voltage/reactive power.

EMS (Energy Management System):
Has functions of data collection and monitoring, statistical analysis, and optimized dispatching.

Installation Dimensions



Electrical Topology Diagram



Multi-sampling point coverage and full-data monitoring ensure system safety.
Intelligent detection and early warning functions provide PACK-level safety warnings.

Monet-500TS
Container ES Cabinet

500KW/1075KWh

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

The system integrates energy storage converter, storage battery, isolation transformer,cooling, fire protection, power distribution, dynamic loop monitoring and energy management,friendly grid adaptability, accepting grid scheduling, active and reactive power compensationsupporting peak shaving and valley filling, demand-side response, and assisting in new energygrid-connected applications, etc. The IP55 protection level adapts to the harsh outdoorenvironment, which is perfectly suited to the needs of industrial and commercial energy storage.

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Model	Monet-500TS
DC-side	
Operate voltage range	580~1000V
Maximum DC current	200A*4
Adaptive battery	Lithium/lead-acid/Solar pane!(MPPT)
Charging mode	According to BMS instructions/three-stage/MPPT
Operating mode	Constant current, constant power, MPPT AC voltage source, DC voltage source
AC-side(on-grid)	
Rated Max.AC power	2500/550kW
Rated AC current	180A*4
Rated AC voltage	400V3W+N+PE
Rated AC frequency	50/60Hz+5Hz
THDi	<3% (Rated power)
Power Factor	-1leading to+1 lagging
AC-side(off-grid)	
Rated AC voltage	400V
Rated AC frequency	50/60Hz
THDV	<3% (linear load)
Overload capacity	110%, normaloperation, 120%,1minute
General parameters	
Degree of protection	IP21(Indoor)
Protective Class	I
Isolation method	Transformer isolation
Shutdown self-discharge	<0.1% ofrated power(without transformer)
Display	LCD
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	25°C to +60°C(derating above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m(>3000m reduction)
Communication interface	RS485/CAN/Ethernet
Dimensions (W* D* H)	1200*1000*2100mm(Indoor)
Weight (approx,)	2250kg(Indoor)

Model	Alice-(1075kWh)
Battery parameters	
Battery rated capacity	215kWh*5
Battery rated voltage	768V
Battery voltage range	672~864V5P*20S*12S
Series of Battery	LFP
Adaptive battery	280Ah
Cell Capacity	2500/550kW
General parameters	
Degree of protection	IP55
Ambient temperature	25°C to +60°C(derating above 45°C)
Relative humidity	0~95% (no condensation)
Fire extinguishing system	Perfluorohexane/heptafluoropropane pipeline fire extinguishing system
Battery compartment cooling method	Air Conditioning
Electrical compartment cooling method	Intelligent Air Cooling
Altitude	3000m(>2000m reduction)
Communication interface	RS485/CAN
Dimensions (W* D * H)	6058*2438*2591mm
Weight (approx.)	12t

Monet-1000TS

Container ES Cabinet

1MW/2.15MWh

Peak Shaving cash out

Stable power supply

Green energy

Flexible installation

The system integrates energy storage converter, storage battery, isolation transformer,cooling, fire protection, power distribution, dynamic loop monitoring and energy management,friendly grid adaptability, accepting grid scheduling, active and reactive power compensationsupporting peak shaving and valley filling, demand-side response, and assisting in new energygrid-connected applications, etc. The IP54 protection level adapts to the harsh outdoorenvironment, which is perfectly suited to the needs of industrial and commercial energy storage.

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Model	Monet-1000TS
DC-side	
Operating Voltage Range	680~1000V
Full load voltage range	680~1000V
Maximum DC current	200A*8
Adaptive Battery	Lithium Battery/lead acid/photovoltaic modules
Charging Mode	As per BMS command/Tri-Stage/MPPT
Operating mode	Constant current constant power, MPPT, AC voltage source, DC voltage source
AC-side(on-grid)	
Rated/Maximum AC Power	1000/1100kW
Rated AC current	180A*8
Rated AC voltage	400V,3W+N+PE
THDI	<3% (Rated Power)
Power factor	-1 ahead ~ +1 behind
AC-side(off-grid)	
Rated AC voltage	400V
Rated AC frequency	50/60Hz
THDU	<3%(Linear load)
Overload capacity	110%, normaloperation; 120%, 1 minute
General parameters	
Degree of protection	IP21(Indoor)
Protective Class	I
Isolation method	Transformer isolation
Shutdown self-discharge	<0.1% ofrated power(without transformer)
Display	LCD
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	-35°C to +60°C(derating above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m(>3000m reduction)
Communication interface	RS485/CAN
Dimensions (W* D* H)	1200*1000*2100mm(PCS cabinet)
Weight (approx,)	3400kg

Model	Alice-(2150kWh)
Battery parameters	
Battery rated capacity	215kWh*10
Battery rated voltage	832V
Battery voltage range	672~864V
Batterypack series and parallel connection	10P*20S*12S
Adaptive battery	LFP
Cell Capacity	280Ah
General parameters	
Degree of protection	IP54
Relative humidity	0~95% (no condensation)
Noise	<78dB
Ambient temperature	-25°C to +60°C(derating above 45°C)
Cooling mode	Intelligent air-cooled
Altitude	3000m (>2000m reduction)
Fire extinguishing system	Perfluorohexane/heptafuoropropane pipeline fire extinguishing system
Communication interface	RS485/CAN
Dimensions (W* D* H)	12196*2438*2896mm(Container);800*800*2100mm(Combiner Converter)
Weight (approx.)	27.5t

Rayshely Power-L3.7-1500 3.72MWh

Utility Scale Container ESS

Safe and Reliable

· Advanced LiFePO4 technology

· Pre-assembled and debugged in factory, shorter constructing-time, less constructing cost

· Liquid cooling,reducing 20% system energy consumption and having longer battery cycle life

Premium Quality Assurance

· Integration with ISO 26262 & IATF 16949 certificates

· Quality assurance and control is involved at all stages to ensure that our products are of the highest quality and are safe & reliable

Intelligent BMS

· Integrated intelligent battery management system and optional cloud EMS

· Fast state monitoring and faults record enables pre-alarm andfaults location

Comprehensive Service

5 years global limitted warranties, One stop service with local suport capabilities

Rayshely Power liquid cooling Battery Energy Storage systems(BESS) offer world-leading clean technology to improve power quality,energy efticlency and envronmental perormance. the BESS systems can be placed at varous electrical systems to increase operational performance and reliability. it provides a cost-effective way to store excess energy generated by renewable sources like wind and solar farms. BESS can provide backup power during outages or extreme weather events, reducing the need forcostly distribution upgrades or emergency generators.Not only do they enable smoother integration of renewable energy sources, but they also help balance electricity supply and demand.

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Model	Rayshely Power-L3.7-1500
Energy density	227.88kwh/m²
Cell type	LFP
PACK configuration	1P52S
Configuration(RACK)	1P416S(8PACK)
RACK quantity	10
Nominal voltage	1331.2V
Voltage range	1123.2V~1518.4V(individual voltage:2.7V~3.65V)
Charge discharge ratio	0.5P/1P*
Rated capacity	3727.36kWh
Short circuit current	45KA
Communication interface	Ethernet/RS485/CAN
Communication protoco	Modbus TCP / Modbus RTU / CAN 2.0
Auxiliary power supply	AC480V/60Hz,3P5W
Design standards	GB/T 36276-2018,UL1973,UL9540,UL9540A, UN38.3,IEC62619, NFPA69,NFPA70, NFPA855,NFPA68
Auxiliary backup power	Online(30min, adjustable)
Working environment temperature	-20 to 55°C(-4° to 131°F)
Altitude	<2000m(2000m~4000m,rediced power operation)
Thermal management	Liquid cooling+ air conditioning
Size(L*W*H)	6058*2438*2896mm
Weight	37ton
Ingress Protection	IP55
Color	RAL9010
Seismic	Zone 4
Noise	≤75 dB @1m(3.28ft)
Fire fighting	Perflurro extinguishing system
Emergency stop on spot	Yes
Emergency stop remotely	Yes
Fire detection	PACK+Container
Thermal diffusion technology	Yes
Whole container delivery (internal battery)	Yes
Battery Ingress Protection	IP65
Full power running range	SOC5%~100%@25°C
Maximum cycle times per day	4 times

*1P charger and discharge is optional *The specifications are subject to change without prior notice

Aivot-5000-lCS

Container-Type ESS

5.2MWh

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

This system boasts multiple advanced features. Online intelligent monitoring enables the collection of data across the full temperature range, ensuring comprehensive and accurate data acquisition. High-precision State of Charge (SOC) equalization optimizes battery performance and longevity. Intelligent automatic liquid filling significantly reduces the labor intensity of manual work, enhancing operational efficiency. Additionally, it features three levels and twenty fault strategy links integrated with high-voltage protection, providing robust safety measures. The non-igniting battery packs adopt heat spread suppression technology, greatly improving safety. Moreover, it can meet the seismic grade of intensity 7, demonstrating excellent seismic resistance.

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Model	Aivot-5000-lCS
Battery Parameters	
Cell Capacity	3.2V/314Ah
System Battery Configuration	12P416S
Rated Battery Capacity	5015.96kwh
Battery Rated Voltage	R1331.2V
Battery Voltage Range	1123.2~1497.6V
AC Parameters	
Rated Output Power	2500kW
Max. Output Power	2750kVA
Rated Grid Frequency	50 Hz
Power Factor	>0.99 (at rated power)
Adjustable Range of Power Factor	-1(leading)~1(lagging)
Max.THDi	≤3% (at rated power)
DC Component	<0.5% (at rated output current)
AC Rated Voltage	690V
Isolation Method	Transformer isolation
Transformer Parameters	
Rated Power	2500kW
Max. Power	2750kVA
LV/MV Voltage	0.69kV/10~35kV
Transformer Vector	Dy11
System Parameters	
Dimensions of PCs Unit (WxHxD)	6058x2896x2438 mm
Dimensions of Battery Unit (WxHxD)	6058x2896x2438mm
Weight of PCs Unit (with MV transformer)	20T
Weight of Battery Unit (with battery)	41T(single unit)
Operating Temperature Range	-30~60°C(>45°C derating)
Humidity Range	0~95%(no condensation)
Cooling Concept of Pcs Chamber	Temperature controlled forced air cooling
Cooling Concept of Battery Chamber	Intelligent liquid cooling
Fire Suppression System of Battery Unit(battery container)	Perfluorohexadone fire protection system+water fire protection (optional)
Max. Altitude	5000m>3000mderating)
Communication Protocol	Modbus-TCP/IEC61850/IEC104
Communication Interface	RS485/Ethernet
Monitoring System	Yes
Access Control System	Optional

03

Construction

Mobile Power Supply

RSGC220-1020 20kWh

Construction Mobile Power Supply

Integrated caster design for easy mobility

No noise, no emission, no vibration,

220V/380V three-phase pure sine wave inverter

ECO

Equipment economy and energy consumption are onlyone-tenth of fuel generators

High Capacity High Power Support PV Charging

Rated power output 10/12KW, peak power 20/24KW suitable for most industrial equipment

Energy storage engineering mobile power supply is a device that can provide temporary power support. It can meet the needs of places that require a large amount of electricity, such as construction sites, and can completely replace power equipment such as diesel engines or liquefied petroleum gas generators. The mobile power supply equipment is small in size and light in weight, and the power supply position can be adjusted at any time according to the needs of the construction site. It uses high-performance power/energy storage batteries and power management systems and ensures stable, economical and safe power supply.

Item	RSGC220-1020
Rated power	10KW/12KW
Peak power	20KW/24KW
Battery type	1C Lithium Iron Phosphate Battery (LFP)
Battery series-parallel connection mode	2P*16S
Battery rated energy storagecapacity	20kWh
Nominal voltage	51.2V
Voltage range	32V~58.4V
Output voltage	220V/380 V
No-load current	<0.3A
Output frequency	50/60Hz
Protection function	over temperature, overload, under voltage protection
Charging interface	AC input 220V/380V,PV input 120V-500V,DC charger 10A-50A
Fire control strategy	three-stage structure, single-cell perfluoro, PACK aerosol, system perfluoro
Relative humidity	0~95%(no condensation)
Ambient temperature	-20°C~55°C
Protection level	IP54
Dimensions (W*D*H)	975*560*700mm
Weight (approx.)	220kg

Temporary lighting

Emergency construction

Metal welding

Roadside Assistance

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04

Wall-mounted / Floor Type / Portable / All-in-one

Residential ESS

RS-PRO-5/10/15L

Residential ES Battery

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

This product includes wall-mounted and floor-standing types. The floor-standing type can save floor space. Compared with the wall-mounted type and other methods, the floor-standing type has no special requirements for the installation wall. As long as there is relatively open floor space indoors, it can be placed. Since it is placed on the ground, the supporting structure is usually more stable. When designing the integration of a large-capacity battery pack, it is also easier to achieve physical structural stability and safety, which can meet the higher demand for energy storage capacity of large families or high-energy-consuming families.

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Item	RS-PRO5-L	RS-PRO10-L	RS-PRO15-L
Basic information			
Nominal Voltage	51.2V DC		
Voltage Range	44V-58.4V		
Nominal Capacity	100Ah	200Ah	300Ah
Rated Capacity	5.12kwh	10.24kwh	15.36kwh
Communication Protocol	CAN /RS485 /RS232		
Max. Number of Parallel Connections	15		
Cycle Life	6000 cycles (@80% DOD)		
Protection Mechanism	Temperature Protection/Over-current Protection/Short-circuit Protection Over-charge Protection/Over-discharge Protection/Low-voltage Protection		
Charging Parameters			
Recommended Charging Current	50A	100A	
Max. Charging Current	100A	200A	
Recommended Charging Voltage	58V	58V	
Max. Charging Voltage	58.4V	58.4V	
Discharging Parameters			
Recommended Discharging Current	50A	100A	
Max. Discharging Current	100A	200A	
Recommended Battery Discharge Cut-off Voltage	44V	44V	
Battery Cut-off Voltage	43.2V	43.2V	
Battery Recovery Voltage	48V	48V	
Discharging Parameters			
Dimension	600*480*189mm	800*580*220mm	800*580*255mm
Gross/Net Weight	55kg/152.6kg	120kg/101kg	150kg/131kg
Installation Method	Wall-Mounted/Floor-Standing	Floor-Standing	Floor-Standing
Shell Material	Sheet Metal		
Protection Rating	IP20		
Cell Type	LiFePO4		
Certification & Safety Standard			
Safety Certification	CE		
Temperature Safety Certification	UN38.3,Class9		
Temperature Parameters			
Discharging Temperature	-20~60°C		
Charging Temperature	0.55°C		
Storage Temperature	-20~45°C		

DS-AIO All-in-one
Residential ES Machine

Peak Shaving cash out | Stable power supply | Green energy | Flexible installation

This all-in-one machine integrates multiple components such as the battery and the inverter into one device, reducing the number and volume of devices, occupying less space, and making the installation more convenient. Multiple guards for safe energy storage: 1.A Phosphoric acid lithium iron phosphate battery 5000~10000 times above use cycle 2.Electricity Flexible ExpansionCan be expanded according to the needs ofuse flexible expansion 3.Built-in MPPTAutomatic voltage stabilization protect the electrical appliances.

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Model	DS-AIO-6200S	DS-AIO-11000S
Rated power	**6200VA/6200W**	**11000VA/11000W**
INPUT		
Input Voltage	230VAC	
Voltage range	170-280VAC(UPS mode) 90-280VAC(Inverter mode)	
Frequency Range	50HZ/60HZ(auto adapt)	
OUTPUT		
Output Voltage	230VAC+5%(inverter mode)	
Peak Power	12400VA	22000VA
Conversion Efficiency	94%	
Output Frequency	50/60HZ+0.1%(inverter mode)	
Switching Time	10MS (computer equipment), 30MS (household appliances)	
Output Waveform	Sine wave	
CHARGE		
Solar Charging Method	MTTP	
PV Maximum Input Powel	6200W	2*5500W
MPPT Input VoltageRange	60-500VDC	90-500VDC
Maximum PV ChargingCurrent	180A	150A
Maximum AC chargingcurrent	80A	150A
Maximum Chargingcurrent	120A	150A
BATTERY		
Battery Capacity	**5120Wh(5.12kWh)**	**15360Wh(15.36kWh)**
Battery Voltage	**51.2VDC**	**51.2VDC**
Battery Type	LIFEPO4	
Full Charge Voltage(FC)	58.4V	
Full Discharge Voltage(FD)	44	
Max Continuous Discharge Current	100A	200A
Protection	BMS Circuit breaker	
Recommended Charging Current	50A(0.5C)	100A(0.5C)
Max Charging Current	100A	200A
PHYSICAL PARAMETERS		
Single Battery Size D*W*H(mm)	170*610*490	250*690*650
Single Battery weight (kg)	48.7kg	137kg

Appearance Display

RS-P12100/P12200-L
Portable ES Battery

Small and portable | Stable power supply | Green energy | Can be used when going out

Flexible and convenient: It has a relatively small volume and a moderate weight, making it easy to carry and move. It can be used flexibly at different locations within the home or in various outdoor places according to needs, without being restricted by fixed power sockets. Backup power source: As a backup power source for the family, it can be put into use in a timely manner when there is a power outage in the power grid or when the power supply is unstable, providing temporary power support for the family and reducing the inconvenience and losses caused by power outages. Moreover, some family portable energy storage batteries can also be used in combination with solar panels, converting solar energy into electrical energy for storage and achieving energy self-sufficiency.

☑ Home use ☑ RV use ☑ Marine use ☑ Boat use ☑ Outdoor camping ☑ Ice cream maker

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Item	RS-P12100-L	RS-P12200-L
Basic information		
Nominal Voitage	12.8V DC	
Voltage Range	11V-14.6V	
Nominal Capacity	100Ah	200Ah
Rated Capacity	1.28kwh	2.56kwh
Cycle Life	3000 cycles (@80% DOD)	
Charging Parameters		
Recommended Charging Current	50A	100A
Max. Charging Current	100A	200A
Recommended Charging Voltage	12.8V	
Max. Charging Voltage	14.6V	
Discharging Parameters		
Recommended Discharging Current	50A	100A
Max. Discharging Current	100A	200A
Physical Parameters		
Dimensions	295*203*230mm	522*245*225mm
Net Wight	10kg	20kg
Shell Material	Plastic	
Protection Rating	IP20	
Installation Method	Portable	
Cell Type	LiFePO4	
Certification & Safety Standard		
Safety Certification	CE	
Temperature Safety Certification	UN38.3,Class9	
Temperature Parameters		
Discharging Temperature	-20~60°C	
Charging Temperature	0~55°C	
Storage Temperature	-20~45°C	

RS-P24100/P24200-L

Portable ES Battery

Small and portable | Stable power supply | Green energy | Can be used when going out

Flexible and convenient: It has a relatively small volume and a moderate weight, making it easy to carry and move. It can be used flexibly at different locations within the home or in various outdoor places according to needs, without being restricted by fixed power sockets. Backup power source: As a backup power source for the family, it can be put into use in a timely manner when there is a power outage in the power grid or when the power supply is unstable, providing temporary power support for the family and reducing the inconvenience and losses caused by power outages. Moreover, some family portable energy storage batteries can also be used in combination with solar panels, converting solar energy into electrical energy for storage and achieving energy self-sufficiency.

- [x] Home use
- [x] RV use
- [x] Marine use
- [x] Boat use
- [x] Outdoor camping
- [x] Ice cream maker

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Item	RS-P24100-L	RS-P24200-L
Basic information		
Nominal Voitage	25.6V DC	
Voltage Range	20V-29.2V	
Nominal Capacity	100Ah	200Ah
Rated Capacity	2.56kwh	5.12kwh
Cycle Life	3000 cycles (@80% DOD)	
Charging Parameters		
Recommended Charging Current	50A	100A
Max. Charging Current	100A	200A
Recommended Charging Voltage	25.6V	
Max. Charging Voltage	29.2V	
Discharging Parameters		
Recommended Discharging Current	50A	100A
Max. Discharging Current	100A	200A
Physical Parameters		
Dimensions	395*255*165mm	500*360*178mm
Net Wight	21.3kg	42.3kg
Shell Material	Sheet Metal	
Protection Rating	IP20	
Installation Method	Portable	
Cell Type	LiFePO4	
Certification & Safety Standard		
Safety Certification	CE	
Temperature Safety Certification	UN38.3,Class9	
Temperature Parameters		
Discharging Temperature	-20~60°C	
Charging Temperature	0~55°C	
Storage Temperature	-20~45°C	

05

Off-grid / Grid tied / Hybrid

Solar inverter

RS-OGI-62K

6200W

Off-grid inverter

Touch - controlled color screen display, with intuitive parameter display screens.

Standard - equipped with main and auxiliary dual - AC voltage full - power output.

Equipped with EMI filtering and strong anti - interference technology.

Enhanced inverter output power under photovoltaic conditions.

Higher utilization of photovoltaic power when pv and mains power are complementary.

The frosted pure white exterior design, delicate and elegant.

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Input

Input mode	L + N + PE
Rated input voltage	220/230/240VAC
Voltage range (Normal)	90 - 280VAC ± 3V
Voltage range(UPS)	170 - 280VAC ± 3V
Frequency range	50Hz/60Hz (Adaptive)

Output

Rated Power(Battery Inversion)	6200W
Rated Power(PV Inversion)	6500W
Output Voltage	220/230/240VAC ± 5%
Output Frequency	50/60Hz ± 0.1%
Waveform	Pure sine wave
Switching Time for computer equipment	10ms
Switching Time for household appliances	20ms
Peak Power	12400VA
Overload Capacity	Battery mode: 11 seconds @ 105% - 150% load; 2 seconds @ 150% - 200% load; 400 milliseconds @ load greater than 200%

Grid - connected operation

Output voltage	220/230/240VAC
Range of voltage fed into the grid	170-265VAC
Range of frequency fed into the grid	49-51±1Hz/59-61±1Hz
Nominal output current	26.9A
Power factor range	>0.99
Maximum conversion efficiency (DC/AC)	98%

Battery

Rated voltage	48Vdc
Constant voltage charging voltage (configurable)	56.4Vdc
Float charging voltage (configurable)	54Vdc
PV charging method	MPPT
Maximum PV input power	8500W
MPPT input voltage range	60 - 500Vdc
Optimal Vmp operating range	360 - 430Vdc
Maximum PV input voltage	500Vdc
Maximum PV input current	27A
Maximum PV charging current	120A
Maximum mains charging current	100A
Maximum charging current	120A

Others

LCD interface	operating mode, load, input, output, etc.
RS232	Baud rate 2400
Expansion slot communication interface	BMS, WIFI card, dry contact card, etc.
Parallel - machine interface	Support
Operating environment temperature	-10~50°C
Operating environment humidity	20%~95% (non - condensing)
Storage temperature	-15~60°C
Altitude	⩽4000m，Derating is required above 1000m,
Noise	⩽50db
Depth × Width × Height (mm)	483x313x143
Weight (for reference) KG	8.5
Standards and certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1

RS-OGI-110K

11000W

Off-grid inverter

Touch - controlled color screen display, with intuitive parameter display screens.

Standard - equipped with main and auxiliary dual - AC voltage full - power output.

Equipped with EMI filtering and strong anti - interference technology.

Enhanced inverter output power under photovoltaic conditions.

Higher utilization of photovoltaic power when pv and mains power are complementary.

The frosted pure white exterior design, delicate and elegant.

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Input

Input mode	L + N + PE
Rated input voltage	220/230/240VAC
Voltage range (Normal)	90 - 280VAC ± 3V
Voltage range(UPS)	170 - 280VAC ± 3V
Frequency range	50Hz/60Hz (Adaptive)

Output

Rated Power(Battery Inversion)	11000W
Rated Power(PV Inversion)	11000W
Output Voltage	220/230/240VAC ± 5%
Output Frequency	50/60Hz ± 0.1%
Waveform	Pure sine wave
Switching Time for computer equipment	10ms
Switching Time for household appliances	20ms
Peak Power	22000VA
Overload Capacity	Battery mode: 11 seconds @ 105% - 150% load; 2 seconds @ 150% - 200% load; 400 milliseconds @ load greater than 200%

Grid - connected operation

Output voltage	220/230/240VAC
Range of voltage fed into the grid	170-265VAC
Range of frequency fed into the grid	49-51±1Hz/59-61±1Hz
Nominal output current	47.8A
Power factor range	>0.99
Maximum conversion efficiency (DC/AC)	98%

Battery

Rated voltage	48Vdc
Constant voltage charging voltage (configurable)	56.4Vdc
Float charging voltage (configurable)	54Vdc
PV charging method	Dual - channel MPPT
Maximum PV input power	2x5500W
MPPT input voltage range	90 - 500Vdc
Optimal Vmp operating range	300 - 400Vdc
Maximum PV input voltage	500Vdc
Maximum PV input current	18A/18A
Maximum PV charging current	150A
Maximum mains charging current	150A
Maximum charging current	150A

Others

LCD interface	operating mode, load, input, output, etc.
RS232	Baud rate 2400
Expansion slot communication interface	BMS, WIFI card, dry contact card, etc.
Parallel - machine interface	Support
Operating environment temperature	-10~50°C
Operating environment humidity	20%~95% (non - condensing)
Storage temperature	-15~60°C
Altitude	⩽4000m，Derating is required above 1000m,
Noise	⩽50db
Depth × Width × Height (mm)	570.8x471x148.
Weight (for reference) KG	19.3
Standards & certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1

EPH Series(HV)

AC 4KW-12KW

Three Phase Hybrid Inverter

High Output

Working in 45 degrees high temperature without power degradation

Accuracy

Anti-backflow control accuracy <20W

SML/DRED Function

The latest SML/DRED functions are standard for the entire series

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Item	EPH4KTL	EPH5KTL	EPH6KTL	EPH8KTL	EPH10KTL	EPH12KTL
Input (DC)						
Max DC power	6000W	7500W	9000W	12000W	15000W	15000W
Max DC voltage	1000Vd.c.					
MPPT voltage range	200...850Vd.c.					
Max input current/per string	13A/13A					
Max.input short circuit per MPPT	18A/18A					
Number of MPP trackers	2					
Strings per MPP tracker	1					
Battery Input						
Battery Type	Li-Ion					
Battery voltage range	130-700V					
Maximum charge/discharge current	25/25A					
Charge strategy for Li-ion Battery	Self-adaptation to BMS					
Output (AC)						
AC nominal power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA
Max AC apparent power	5000VA	5500VA	7000VA	8800VA	11000VA	13200VA
Max output current	8A	10A	12A	15A	17A	20A
Nominal AC output	50/60Hz；400/350					
AC output range	45/55Hz;280~490Vac(Adj)					
Power factor	0.8leading...0.8laging					
Harmonics factor	<3%					
Grid type	3W/N/PE					
Three-phase unbalance output	0~100%	0~100%	0~100%	0~100%	0~100%	0~80%
AC Output（Back-up）						
Max AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	10000VA
Norminal Output Voltage	400/380V					
Norminal Output Freqency	50/60HZ					
Output THDV (@Linear Load)	<3%					
Efficiency						
Maximum conversion efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
European efficiency	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
Max battery to AC Efficiency	97.2%	97.2%	97.4%	97.4%	97.4%	97.4%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection						
DC reverse-polarity protection	yes					
DC breaker	yes					
DC/AC SPD	yes					
Leakage current protection	yes					
Insulation Impedance Detection	yes					
Residual Current protection	yes					
Output short circuit protection	yes					
Battery reverse connection protection	yes					
General Parameters						
Dimension (W/H/D)	516*427*183.5mm					
Weight	26 kg					
Operating temperature range ℃	-25°C...+60℃					
Degree of protection	IP65					
Cooling concept	Natural convection					
Topology	Transformerless					
Display	LCD					
Humidity	0-95%,no condensation					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Meter communication	RS485					
Certificates and Approvals						
CQC, VDE-AR-N4105,IEC61727，IEC62116，VDE0124-AR-N0124，EN50549，IEC62109，IEC62477						

RS01-SPM-602G-EU

Single Phase Hybrid Inverter

Colorful touch LCD, Ip65 protection degree

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Data Sheet

Model	RS01-SPM-602G-EU
PV String Input Data	
Max. DC Input Power (W)	7800
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load MPPT Voltage Range (V)	200-425
Max. DC Input Current(A)	13+13
Max. PV Isc(A)	22+22
No.of MPPT Trackers	2
No.of Strings per MPPT Tracker	1+1
AC Input/Output Data	
Rated AC Output Power (W)	6000
Max AC Output Power (W)	6600
AC Input/Output Rated Current(A)	27.3/26.1
Max.AC Input/Output Current(A)	30/28.7
Max.Continuous AC Passthrough (A)	40
Peak Power (off grid)	2 times of rated power, 10 S
Power Factor	0.8 leading - 0.8 lagging
AC Output Frequency and Voltage	50/60Hz; 220/230Vac
Grid Type	Single Phase
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% (Rated Current)
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	135
Max. Discharging Current (A)	135
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99%
Protection	
Anti-islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Insulation Resistor Detection	Yes
Residual Current Monitoring Unit	Yes
Output Over Current Protection	Yes
Output Shorted Protection	Yes
Surge Protection	DC Type II/AC Type II
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	IEC61727/IEC 62116,EN 50549-1
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2
General Data	
Operating Temperature Range (℃)	-40-60℃, >45℃ Derating
Cooling	Smart Cooling
Noise (dB)	≤50 dB
Communication with BMS	RS485; CAN
Monitoring mode	WIFI，APP
Weight (kg)	24
Size (W x H x D mm)	346Wx506Hx255D(Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years （10Years Optional）

RS01-SPM-802G-EU

Single Phase Hybrid Inverter

Colorful touch LCD, Ip65 protection degree

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Data Sheet

Model	RS01-SPM-802G-EU
PV String Input Data	
Max. DC Input Power (W)	10400
Rated PV Input Voltage (V)	370 (125~500)
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Full Load MPPT Voltage Range (V)	200-425
PV Input Current(A)	20+20
Max. DC Short Circuit Current(A)	44+44
No.of MPPT Trackers	2
No.of Strings per MPPT Tracker	1+1
AC Input/Output Data	
Rated AC Output Power (W)	8000
Max AC Output Power (W)	8800
AC Input/Output Rated Current(A)	36.4/34.8
Max.AC Input/Output Current(A)	40/38.3
Max Continuous AC Passthrough (A)	50
Peak Power (off grid)	2 times of rated power, 10 S
Power Factor	0.8 leading - 0.8 lagging
AC Output Frequency and Voltage	50/60Hz;220/230Vac
Grid Type	Single Phase
Total Harmonic Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% (Rated Current)
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	190
Max. Discharging Current (A)	190
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	99%
Protection	
Anti-islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Insulation Resistor Detection	Yes
Residual Current Monitoring Unit	Yes
Output Over Current Protection	Yes
Output Shorted Protection	Yes
Surge Protection	DC Type II/AC Type III
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	IEC61727/IEC 62116，EN 50549-1
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2
General Data	
Operating Temperature Range (℃)	-40-60℃, >45℃ Derating
Cooling	Smart Cooling
Noise (dB)	≤50 dB
Communication with BMS	RS485; CAN
Monitoring mode	WIFI，APP
Weight (kg)	29
Size (W x H x D mm)	426Wx526Hx255D（Excluding connectors and brackets）
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years （10Years Optional）

RS01-SPM-103/123G-EU

Single Phase Hybrid Inverter

Colorful touch LCD, Ip65 protection degree

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

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Data Sheet

Model	RS01-SPM-103G-EU	RS01-SPM-123G-EU
Battery Input Date		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range(V)	40-60	
Max. Charging Current(A)	220	250
Max. Discharging Current(A)	220	250
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	yes	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power(W)	13000	15600
PV Input Voltage(V)	370V (125V~500V)	
MPPT Range(V)	150~425V	
Full Load DC Voltage Range	200~425V	
Start-up Voltage(V)	125V	
PV Input Current(A)	26+26+26	26+26+26
No. of MPPT Trackers	3	3
No. of Strings Per MPPT Tracker	1+1+1	1+1+1
AC Input/Output Data		
Rated AC Output and UPS Power(W)	10000	12000
Max. AC Output Power(W)	11000	13200
Peak Power(o ffgrid)	2 times of rated power, 10 S	
AC Input/Output Rated Current(A)	45.5/43.5	54.6/52.2
Max.AC Input/Output Current(A)	50/47.9	60/57.4
Max. Continuous AC Passthrough(A)	60	60
Power Factor	0.8 leading - 0.8 lagging	
Output Frequency and Voltage	50/60Hz;220/230Vac	
Grid Type	Single Phase	
Total Harmonic Distortion (THD)	<3% (of nominal power)	
DC current injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	>99%	
Protection		
PV Arc Fault Detection	Integrated	
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Over Voltage Category	Integrated	
Surge Protection	DC Type II / AC Type II	
Over Voltage Category	DC Type II / AC Type III	
Certifications and Standards		
Grid Regulation	IEC61727/IEC 62116,EN 50549-1	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4,IEC/EN 62109-1,IEC/EN 62109-2	
General Data		
Operating Temperature Range(℃)	-40~60℃, >45℃ Derating	
Cooling	Smart cooling	
Noise(dB)	<50 dB	
Communication with BMS	Rs485; CAN	
Monitoring mode	WIFI，APP	
Weight(kg)	31	
Cabinet size(mm)	446W×576H×254D(Excluding connectors and brackets)	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 Years (10 Years Optional)	

RS01-TPM-602/802/103/123G-EU

Three Phase Hybrid Inverter

100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Data Sheet

Model	RS01-TPM-602G-EU	RS01-TPM-802G-EU	RS01-TPM-103G-EU	RS01-TPM-123G-EU
PV String Input				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	550 (160-800)			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	200-650			
Full Load MPPT Voltage Range (V)	350-650			
Max. DC Input Current(A)	13+13		26+13	
Max. DC Short Circuit Current(A)	17+17		34+17	
No.of MPPT Trackers	2			
No.of Strings per MPPT Tracker	2+1			
AC Input/Output Data				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Input/Output Rated Current(A)	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max.AC Input/Output Current(A)	10 /9.6	13.4/12.8	16.7/15.9	20/19.1
Max.Three-phase Unbalanced Output Current(A)	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1
Max Output short circuit current (A)	75			
Max. Continuous AC Passthrough(A)	45			
Peak Power (off grid)	2 times of rated power, 10 S			
Power Factor	0.8 leading - 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac			
Grid Type	Three Phase			
Total Harmonic Distortion (THDi)	<3%			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	120	160	200	240
Max. Discharging Current (A)	120	160	200	240
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.0%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Output overvoltage protection	Yes			
Photovoltaic input lightning	Yes			
Surge Protection	DC Type III / AC Type III			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range (℃)	-40-60℃, >45℃ Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication to BMS	RS485; CAN			
Monitoring mode	Wi-Fi+APP			
Weight (kg)	37.5			
Size (W x H x D mm)	446W×576H×255D(Excluding Connectors and Brackets)			
Ingress Protection	Ip65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			

RS01-TPH-802/103/123/153/203G-EU

Three Phase Hybrid Inverter

100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Data Sheet

Model	RS01-TPH-802G-EU	RS01-TPH-103G-EU	RS01-TPH-123G-EU	RS01-TPH-153G-EU	RS01-TPH-203G-EU
PV String Input					
Max. DC Input Power (W)	10400	13000	15600	19500	26000
Max. DC Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Range (V)	325-850				
Rated DC Input Voltage (V)	600				
PV Input Current (A)	20+20		26+26		
Max. PV Isc (A)	30+30		39+39		
No.of MPPT Trackers	2				
No.of Strings per MPPT Tracker	1+1		2+2		
AC Input/Output Data					
Rated AC Output Power (W)	8000	10000	12000	15000	20000
Max. AC Output Power (W)	8800	11000	14400	16500	22000
AC Input/Output Rated Current(A)	12.2	15.2/14.5	18.2	22.8	30.4/29.0
Max.AC Input/Output Current(A)	13.4	16.7/16	19.2	25.0	33.4/31.9
Max. Three-phase Unbalanced Output Current (A)	17.8	22	26.8	33.6	44.7
Max. Continuous AC Passthrough (A)	32	40	48	60	80
Peak Power (Off Grid)	1.5 times of rated power, 10 S				
Generator Input/Smart Load/AC Couple Current (A)	12.2/32/12.2	15.2/40/15.2	18.2/48/18.2	22.8/60/22.8	30.4/80/30.4
Power Factor	0.8 leading - 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac				
Grid Type	Three Phase				
Total Harmonic Distortion	<3%				
Battery					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-700				
Max. Charging Current (A)	37				
Max. Discharging Current (A)	37				
Number of Battery Input	1				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	99.9%				
Protection					
Anti-islanding Protection	Yes				
PV String Input Reverse Polarity Protection	Yes				
Insulation Resistor Detection	Yes				
Residual Current Monitoring Unit	Yes				
Output Over Current Protection	Yes				
Output Shorted Protection	Yes				
Surge Protection	Yes				
Arc Fault Circuit Interruption (AFCI optional)	Yes				
Over Voltage Protection	Yes				
Certifications and Standards					
Grid Regulation	IEC61727/62116,EN50549-1				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Operating Temperature Range (℃)	-25 ℃ ~ +60 ℃				
Cooling	Smart Cooling				
Noise (dB)	<45 dB				
Communication with BMS	CAN				
Monitoring mode	WIFI，APP				
Size (WxHxD mm)	450W×480H×240D (Excluding Connectors and Brackets)				
Weight (kg)	30				
Ingress Protection	Ip65				
Installation Style	Wall-mounted				
Warranty	5 Years (10 Years Optional)				

RS01-TPH-303/403/503/603G-EU

Three Phase Hybrid Inverter

100% three-phase unbalanced output, with each phase capable of delivering up to 50% of the rated power

Ac coupling to retrofit existing solar system

Max. 16 pcs parallel for on-grid and off-grid operation;Support multiple batteries parallel

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Equipped with an intelligent control system, an intuitive LCD display screen, and a simple operation interface, it enables remote monitoring of the device status and adjustment of operating parameters through a mobile phone APP, allowing you to keep track of the power consumption situation anytime and anywhere. It is compatible with a variety of energy storage batteries. Whether it is lead-acid batteries, lithium batteries, or other mainstream battery types, it can be easily integrated, meeting the energy storage configuration needs of different users.

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Data Sheet

Model	RS01-TPH-303G-EU	RS01-TPH-403G-EU	RS01-TPH-503G-EU	RS01-TPH-603G-EU
PV String Input				
Max. DC Input Power (W)	39000	52000	65000	78000
Max. DC Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Range (V)	150-850			
Full Load MPPT Voltage Range (V)	360-850	360-850	450-850	450-850
Rated DC Input Voltage (V)	600			
PV Input Current (A)	36+36+36	36+36+36+36		
Max. PV Isc (A)	55+55+55	55+55+55+55		
No.of MPPT Trackers	3	4		
No.of Strings per MPPT Tracker	2+2+2	2+2+2+2		
AC Input/Output Data				
Rated AC Output Power (W)	30000	40000	50000	60000
Max. AC Output Power (W)	33000	44000	55000	66000
AC Input/Output Rated Current(A)	45.5/43.5	60.7/58.0	75.8/72.5	91
Max.AC Input/Output Current(A)	50/47.9	66.7/63.8	83.4/79.8	100
Max. Three-phase Unbalanced Output Current (A)	60	70	83.3	100
Max. Continuous AC Passthrough (A)	118	158	197	237
Peak Power (Off Grid)	1.5 times of rated power, 10 S			
Generator Input/Smart Load/AC Couple Current (A)	45.5/118/45.5	60.7 / 158/ 60.7	75.8/ 197/ 75.8	91 / 237/ 91
Power Factor	0.9 leading - 0.9 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac 230/400Vac			
Grid Type	Three Phase			
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-700			
Max. Charging Current (A)	50+50			
Max. Discharging Current (A)	50+50			
Number of Battery Input	2			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. efficiency	97.6%			
Euro efficiency	97.0%			
MPPT efficiency	99.9%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity Protection	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Surge Protection	Yes			
Arc Fault Circuit Interruption (AFCI optional)	Yes			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range (℃)	-40-60℃, > 45℃Derating			
Cooling	Smart Cooling			
Noise (dB)	≤65 dB			
Communication with BMS	CAN			
Monitoring mode	WIFI, APP			
Weight (kg)	82.5			
Size (WxHxD mm)	537W×833H×295.5D (Excluding Connectors and Brackets)			
Ingress Protection	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			

06

EV charging+ Energy storage management.

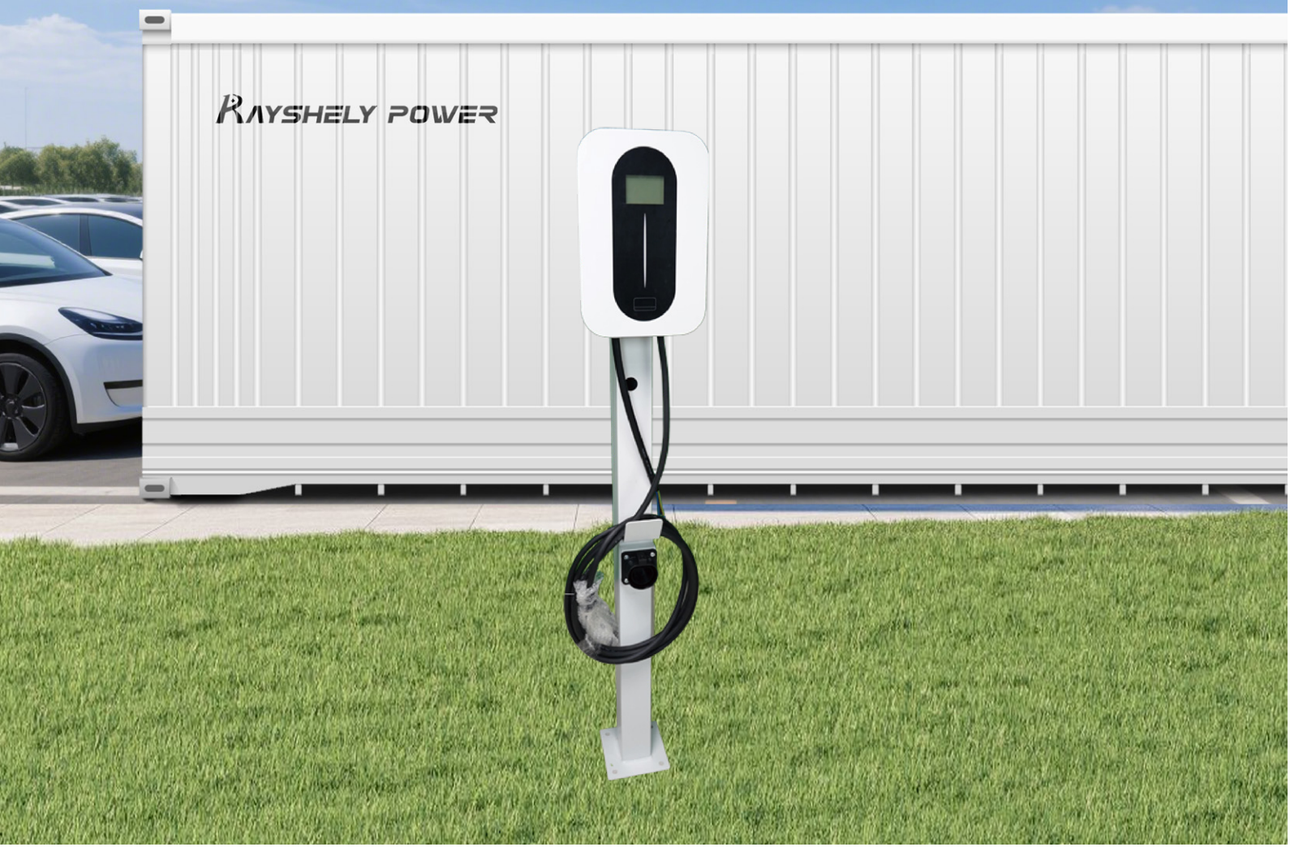
EV Chager

CXE-A07B/A11B/A22B

EV Charging Station

7/11/22KW

Intelligent Fast Charging | Stable power supply | Green energy | Flexible installation



Compact and fashionable design: the latest design is compatible with all EVs, and the compact and fashionable appearance can match the style of all your modern home and business buildings, featuring high cost-effectiveness and steady performance. Easy to use: it supports various payment methods such as RFID, credit card, APP, etc., and users can flexibly operate the EV charger via HMI or view all parameters through the classic LED display. Safety and protection: it complies with the latest leakage protection standard, provides multiple protections to ensure user safety, and has an IP55 protection level (the display is IK08). Innovation: rail mounting makes installation easy, and it has intelligent error diagnosis functions.

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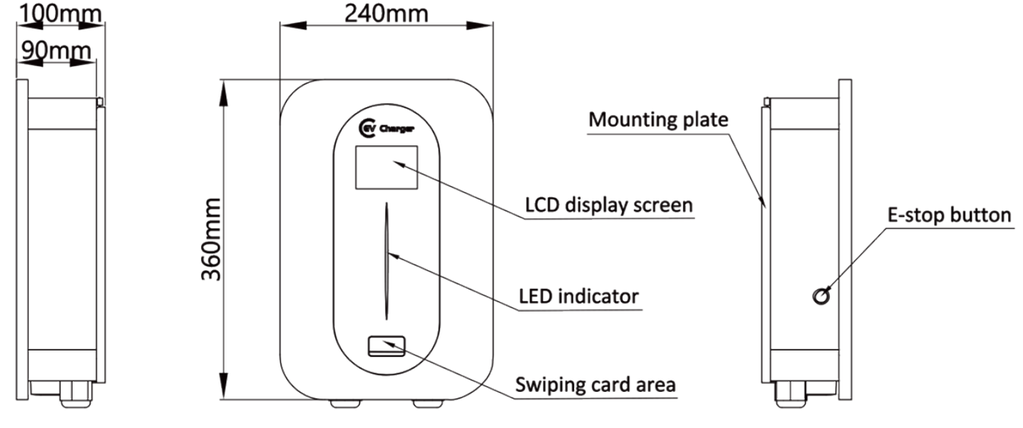
Model		CXE-A035B	CXE-A07B	CXE-A11B	CXE-A22B
Electrical specification	Power supply	1P+N+PE		3P+N+PE	
	Rated woltage	230VAC		400VAC	
	Frequency	50/60Hz			
	Rated current	16A(Max)	32A(Max)	16A(Max)	32A(Max)
	Rated power	3.5kW	7kW	11kW	22kW
	Recommendpower supply cablc	3x2.5mm copper	3x6mm copper	5x2.5mm copper	5x6mm copper
	Charging plug	IEC62196-2,Type 2,1-phaseplug +4.8m cable		IEC62196-2,Type 2,3-phaseplug +4.8m cable	
Functional description	Start mode	Plug-and-play/RFiD card/APP*			
	Display screen	3,5-inch LCD screen (display current,voltage, powercharping time,state& fault information, etc,)			
	LED indicator	LED strip indicate 5 statuses (see details in LED indicatordescription)			
	Communicationinterface	WIFI/Ethernet/4G(optional)			
	Communicationprotocol	OCPP 1.6J			
	SafetyProtection	Emergency stop button, surge protection, over/undervoltage, over current, &round protection, leakage protectionover temperature			
	RCD built-in	Yes, AC 30mA+DC 6mA			
Ambient conditions	Work altitude	≤ 2000 m			
	Storanetemperature	-30~+85°C			
	Worktemperature	-20~+50°C			
	Operatinghumidity	5%-95% no condensation			
	installationlocation	Indoor or outdoor, good ventilation,no flammable, explosive gases			
	Cooling	Natural cooling			
Mechanical Parameters	Unite size	H=1500mm,W=340mm,D=198mm			
	Miounting	Floor standing			
	IP grade	IP 54			
	Material	Metal plate shell with powder coating			

Size



CE RoHS J1772 (TYPE 1) MENNEKES (TYPE 2) GB/T

CX-DC-20/30/40WD

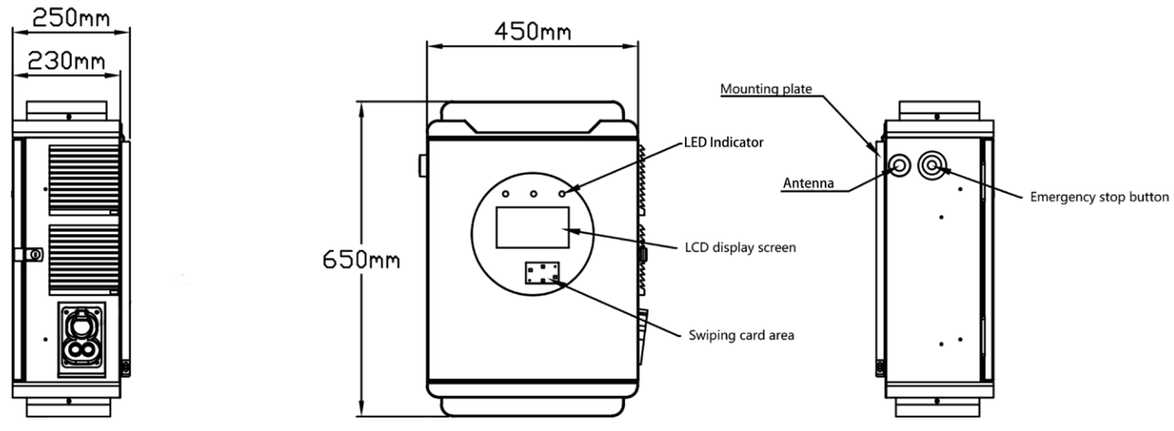
20/30/40KW

Wall-Mounted DC Charger

Intelligent Fast Charging | Stable power supply | Green energy | Flexible installation

Model	CX-DC-20WD	CX-DC-30WD	CX-DC-40WD
Output Power	20kW	30kW	40kW
Qutput Current	67A	100A	133A
Output Voltage	150-1000V		
Input voltage	260-475V		
Input Connection	3P+N+PE		
Input Current	32A	45A	64A
Frequency	50/60 Hz		
Power Factor	>099@rated voltage		
Efficiency	95%		
Display	7-inch display		
Dimension(mm)	450*250*650		
Weight	44KG	56KG	70KG
Operating Temperature	-20°C to+50°C		
Altitude	2000M		
IP LEVEL	IP54		
Working Relative Humidity	RH≤95%		
Input Cable length	0M(Customization Acceptable)		
Gun Cable Length	5M(Customization Acceptable)		
Interface Standard	CCS CHADEMO GB/T		
Charging Protocol	GBT27930 / CHADEMO 2.0 / DIN 701210CPP 1.6(JSON)ISO 15118		

Size



Function: 7-inch LCD display, which can show real-time charging status including time, voltage, current, power, and temperature. Rich configuration: It supports Plug and Charge, swipe card, password, and appointment charging; foreign versions can be configured with OCPP. Widely used: Suitable for both home and business environments. Safe and reliable: With a protection grade of IP54, it is moisture-proof, water-proof, mildew-proof, dust-proof, and flame-retardant, and comes with protection functions against overvoltage, undervoltage, overload, short circuit, leakage, and battery anti-reverse connection. High intelligence: Equipped with powerful information collection, transmission, and communication functions, supporting Ethernet, 4G, and WiFi wireless communication. Easy to install and use: The installation process is simple, payment is convenient and fast (supporting mobile application software or IC card swiping), and it is fully compatible with all EVs in the market.

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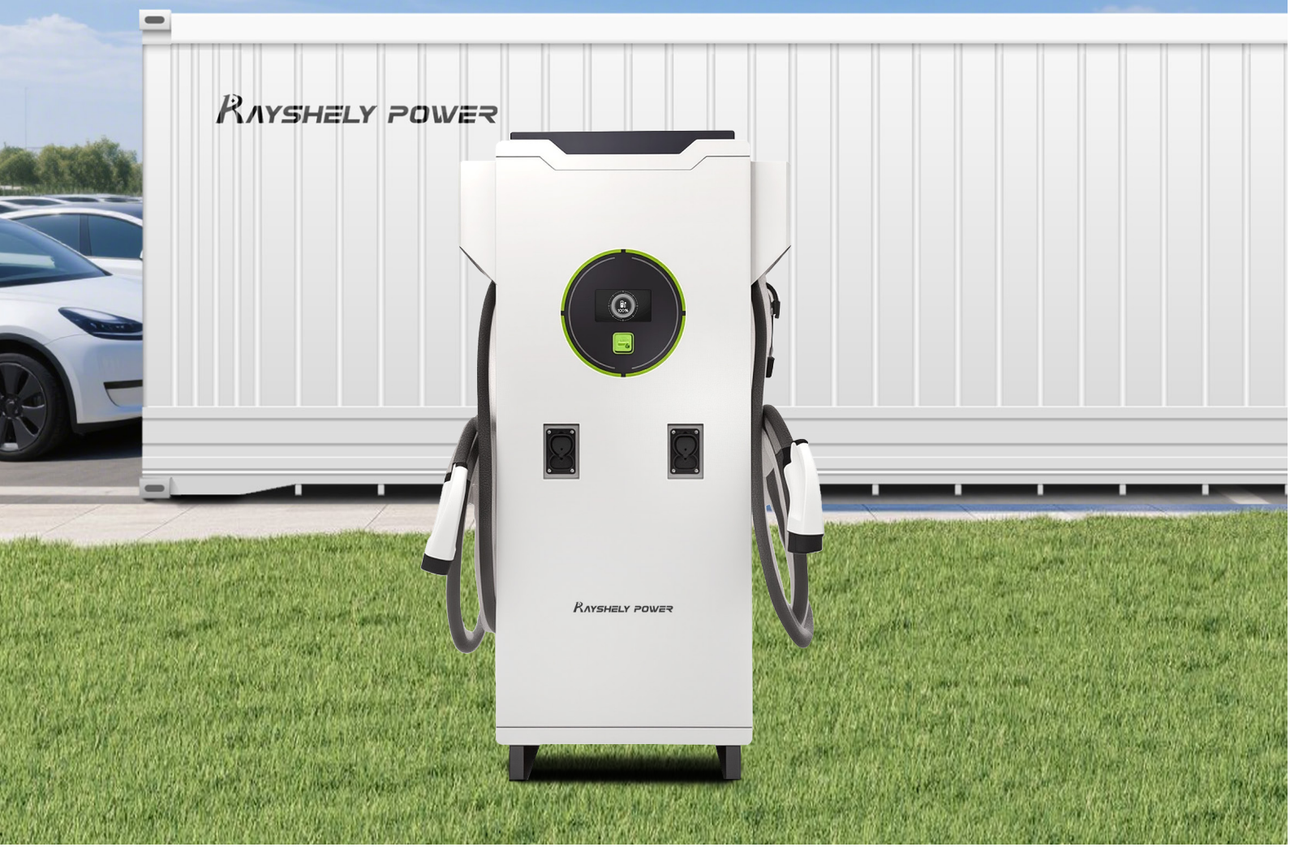
CE RoHS

CXE-DC SERIES

EV Charging Station

60-320KW

Intelligent Fast Charging | Stable power supply | Green energy | Flexible installation



Low standby power consumption (<10W) reduces operating costs; wide output voltage range of 150V–1000V is applicable to most vehicles; high power density with a compact size and small volume saves space and transportation costs; expertise in air duct technology ensures heat dissipation efficiency, thus insuring product reliability; full safety protection makes the product safe; a flexible and friendly UI interface allows customization of the UI interface style according to customer needs.

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Model	CXE-D60K (CCS)1000	CXE-D120K (CCS)1000	CXE-D160K (CCS)1000	CXE-D180K (CCS)1000	CXE-D240K (CCS)1000	CXE-D320K (CCS)1000
Output Power	60kW	120kW	160kW	180kW	240kW	320kW
Current Range	1~200A	1~250A	1~250A	0~250A	0~250A	0~250A
Input Voltage	AC380V+15%					
Input Frequency	50/60Hz					
Output Voltage	200~1000VDC					
Constant Power Range	300~1000VDC					
Charging Gun	5M charging gun with GB/T/CCS2/CCS1standard (length customized available)					
Communication Interface	4G/LAN/WIFI					
Stable Voltage Accuracy	≤0.5%					
Stable Current Accuracy	≤1%					
Human Machine Interface	7-inch color touchscreen					
Efficiency	>95%					
Power Factor	≥0.99					
Current Sharing Coefficient	≤5%					
Harmonic Current	≤5%					
Noise	≤65db					
Metering Accuracy	Level 1					
IP Grade	IP54					
Standby Power	≤N*5OW					
Cooling	Fan cooling					
Electrostatic discharge immunity	Class 4					
Surge immunity	Class 4					
Working Temperature	-20°C~50°C					
Working Humidity	5%~95% no condensation					
Altitude	≤2000M					
Product DimensionWxDxH	720mm*547mm*1790mm					

Double gun custom combinatign arbitrary collocation

- Multi-language interface (China,UK,Russia, France, Germany ete)more intelligent to understand you;
- Commerclal use to meet customer back end protocol:
- Support 0CPP 1.6」(0CPP 2.0 upgrade optional);
- OEM+ODM support;
- Multi charging method: APP, RFID, NFC, QR code. password,ViN code, super account.

CE RoHS

Solutions

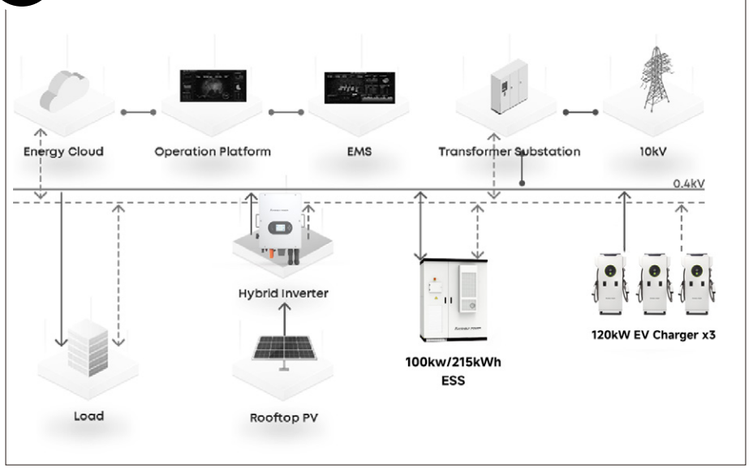
Integrated solution for photovoltaic power generation,
energy storage and electric vehicle charging

120KW

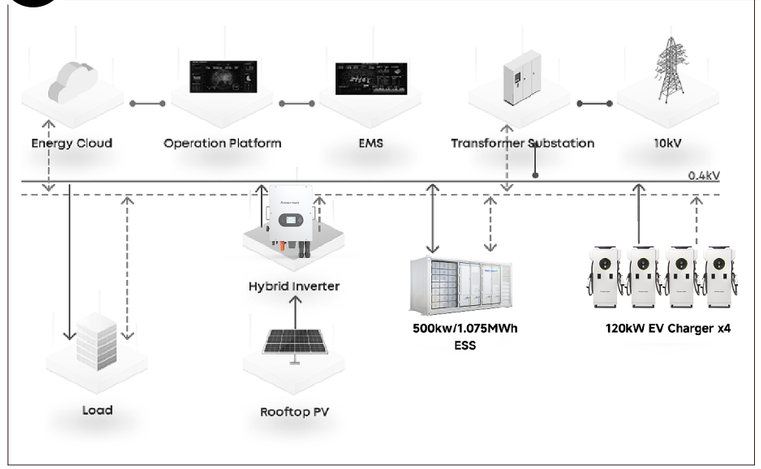
Suggested Solutions

Coordinated green energy utilization model integrating PV power generation, energy storage, EV charging and energy management.

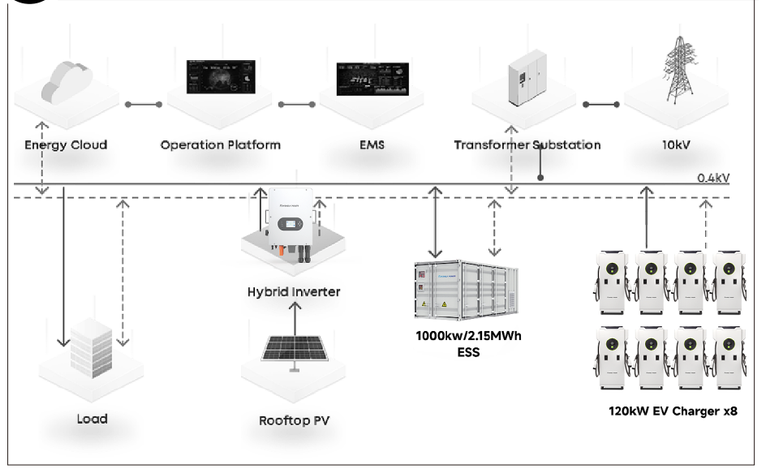
1 100kw/215KWh System + 120kW EV Charger*3



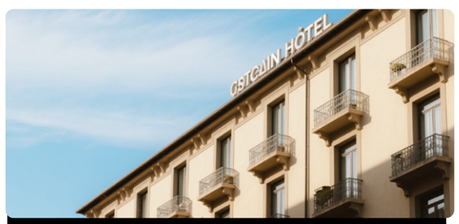
2 500kw/1.075MWh System + 120kW EV Charger*4



3 1000kw/2.15MWh System + 120kW EV Charger*8



Application Scenarios



Hotel

Parking Lot

Community

Logistics Vehicles

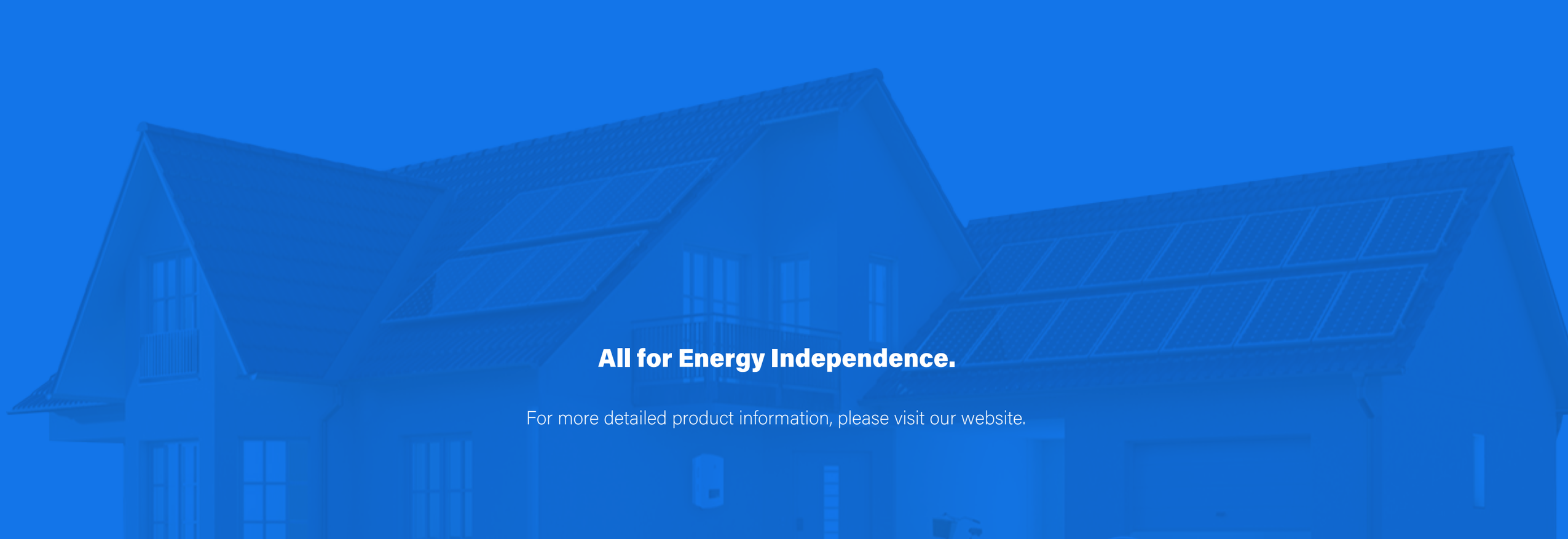
Gas Station

Bus Station

CBD

Airport

RAYSHELY POWER



All for Energy Independence.

For more detailed product information, please visit our website.