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Intelligent Energy Storage Products



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Adapting to Development Trends, Embracing the Green and Energy-Efficient Philosophy

We are currently in a new era of change, and we are also working together to create a new era of change. Carbon emission levels have become one of the core benchmark for assessing the quality of economic and social development. Focused on building a carbon-neutral society, the world is undergoing a profound energy revolution. The present moment is a crucial period for energy transition, where we need to lay the foundation for low-carbon energy development. We must establish a policy framework for the diversified iteration of the energy system. Comprehensively, we need to promote the intelligent upgrading of the energy industry and create a better environment for energy technology innovation. Additionally, we must reconstruct the balance and stability of the energy system within the multipolar pattern of energy supply and demand.



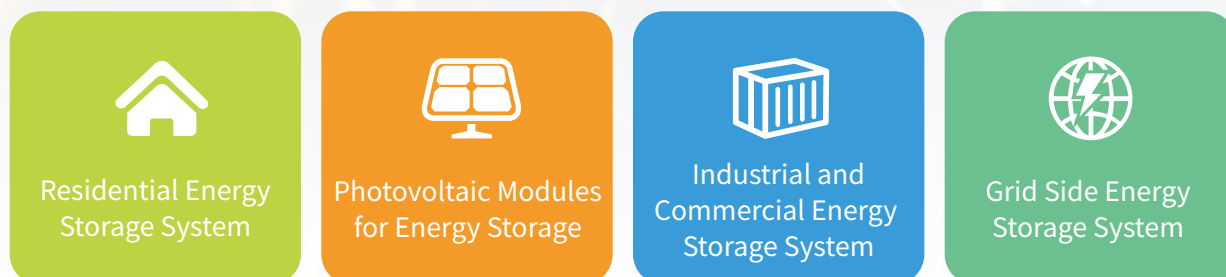
Saved one kilowatt
hour of electricity

{ Saved 0.4kg standard coal
Reduced emission of 0.272kg
carbon dust & 0.997kg CO₂

Since its establishment, CEEG has consistently adhered to the core values of 'foresight, innovation, and responsibility,' with a commitment to 'delivering high-quality power to the world.' With over 30 years of focused manufacturing, CEEG has developed three major pillars: power transmission and distribution, energy internet, and new energy/energy storage solutions.

Energy storage is widely recognized as a crucial method to accelerate the 'Carbon Peaking and Carbon Neutrality' goals. Guided by the green principles of safety, energy efficiency, and environmental protection, CEEG develops residential, commercial, and utility-scale energy storage solutions tailored to diverse industry needs.

Our products have been deployed in energy storage projects worldwide, contributing to energy savings and emissions reduction. Additionally, we offer customized energy storage solutions to meet the unique application requirements of our customers.



Along with hardware products, CEEG also provided services and support throughout the product life cycle from demand to operation and maintenance.



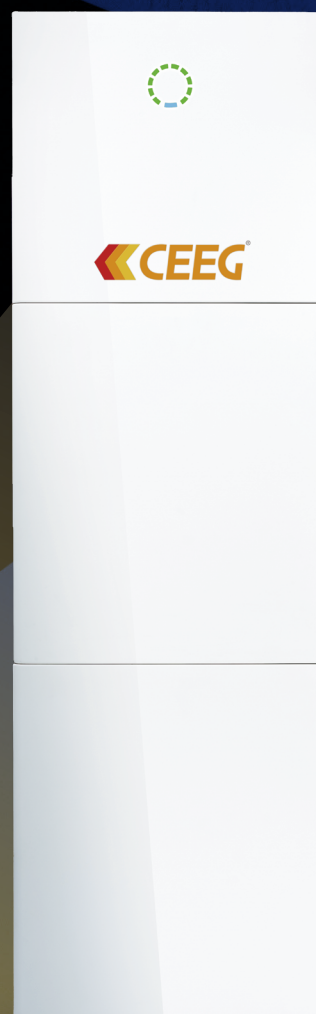
1 Single-Phase Solar Energy Storage System

Product Introduction:

The single-phase solar energy storage system is a power system with only one-phase voltage. This system is simple, convenient, easy to maintain, versatile, and widely applied. It offers relatively small output power and storage capacity, helps households to be self-sufficient and reduces electricity costs.

Product Features:

- Elegant All-in-One design
- Wide MPPT range
- MAX. 120% rated AC output power
- Up to 6 systems in parallel
- Uninterrupted power supply
- Convenient installation
- Low noise emission
- Safer LFP battery



Product Parameters

Model	CHCI-3.6K	CHCI-5.0K	CHCI-6.0K
PV Input			
Max. PV Input Voltage	600V		
MPPT Voltage Range	100V~550V		
Max. DC Input Power	4800W	6650W	8000W
Start-up Voltage	90V		
Rated Operating Voltage	360V		
Max. Input Current	12.5/12.5A		
Isc PV	18/18A		
NO. of MPP Trackers	2		
NO. of Strings per MPP Tracker	1		
Battery Input			
Battery Type	LiFePO ₄		
Battery Capacity	5.12 / 10.24kWh		
Nominal Battery Voltage	204.8 / 409.6V		
Battery Voltage Range	160V~227.2V/320V~454.4V		
Max. Charge/Discharge Current	DC 25A		
AC Input/Output			
Rated Output Power	3600W	5000W	6000W
Max. Apparent Power	3600VA	5000VA	6000VA
Max. Apparent Power from Grid	7200VA	10000VA	12000VA
Rated Voltage	220/230/240V		
Rated Frequency	50/60Hz		
Rated AC Current to Grid	16A	21.7A	26.1 A
Rated AC Current from Grid	32A	43.4A	52.2A
Displacement Power Factor	1 (-0.8~+0.8adjustable)		
THDi	< 3%		
EPS Output (With Battery)			
Max. Output Power	3600W	5000W	6000W
Max. Apparent Power	4320VA,60s	6000VA,60s	7200VA,60s
Rated Voltage	230 (±2%)V		
Norminal Frequency	50/60 (±0.2%)Hz		
Max. Output Current	18.8A	26.1A	31.3A
Switch Time	<10ms		

Efficiency	
PV Max. Efficiency	97.6%
PV Europe Efficiency	97%
PV Max. MPPT Efficiency	99.9%
Battery Charge by PV Max. Efficiency	98%
Battery Discharge Efficiency	96.7%

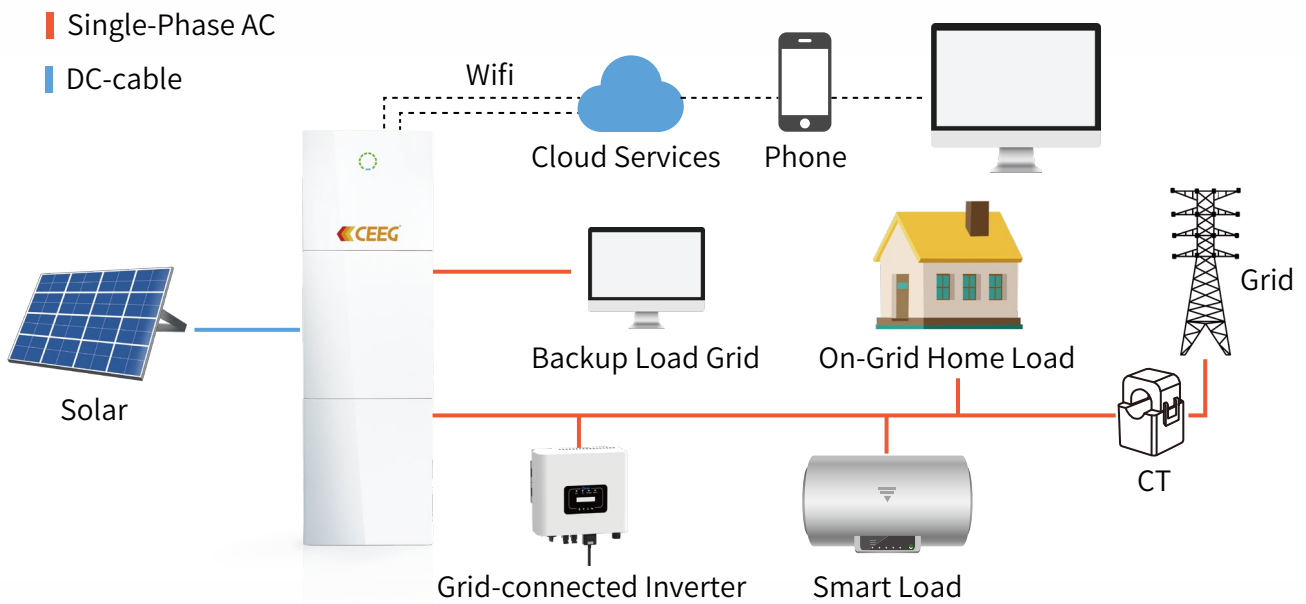
General Data

Product Specifications	Battery Capability- 5.12kWh	Battery Capability- 10.24kWh
Dimension (W/D/H)	550×233×1125mm	550×233×1750mm
Dimension of Packing (W/D/H)	645×302×1370mm	645×302×2050mm
Net Weight	68kg	115kg
Gross Weight	78kg	130kg
Operation Temp	-25°C~+60°C	
Relative Humidity	0~95%	
Altitude	≤4000m (>3000m Derating)	
Ingress Protection	IP65	
Cooling	Natural	
Inverter Topology	Non-isolated	
Human Interface	LED/APP	
BMS Communication Interface	RS485/CAN	
Meter Communication Interface	RS485	
Noise Emission	< 25dB	
Standby Power Consumption	< 5W	
Protection	Over/Under voltage protection, DC isolation protection, Over current protection, DC injection monitoring, Residual current detection, Anti-islanding protection, Over load protection, Battery Input reverse polarity protection, PV reverse polarity protection, Surge protection, Over heat protection.	

Main Application Scenarios

- Single-phase power supply systems for homes and offices
- Utilize new energy for self-consumption
- Improve power quality
- Earn peak-valley electricity price differences
- Serve as a backup power source to enhance the stability of home electricity consumption

Typical Application Scenarios



Order Information

Model	Basic Configuration	Lead Time
CHCI-3.6K	5.12kWh, 3.6kW	30 Days
	10.24kWh, 3.6kW	30 Days
CHCI-5.0K	5.12kWh, 5kW	30 Days
	10.24kWh, 5kW	30 Days
CHCI-6.0K	5.12kWh, 6kW	30 Days
	10.24kWh, 6kW	30 Days

2

Three-Phase Solar Energy Storage System

Product Introduction:

The three-phase solar energy storage system features three-phase lines, offering higher output power and storage capacity. It enables more efficient power conversion and energy storage, and it is suitable for places with three-phase power supply. Through photovoltaic integration and peak shaving strategies, it effectively reduces electricity costs while ensuring a more stable power supply.

Product Features:

- 150% PV oversized and 110% overload output
- 3-phase unbalanced output
- 15A DC input current, support high power PV panel
- Uninterrupted power supply
- Store the surplus energy from PV to battery
- Convenient Meter-free installation
- Low noise emission
- Safer LFP battery



Product Parameters

Model	CHIEF-5.0K	CHIEF-8.0K	CHIEF-10.0K	CHIEF-12.0K
PV Input				
Absolute Max Voltage	DC 1000 V			
MPPT Voltage Range	DC 200V~750 V			
Max. DC Input Power	7500W	10000W	12000W	12000W
Start-up Voltage	200V			
Max. Input Current	15A			
Isc PV	20A			
NO. of MPP Trackers	2			
NO. of Strings per MPP Tracker	1			
Battery				
Total Capacity	7.68 / 11.52 / 15.36 kWh			
Full Load Rated Operating Voltage	254.4V~345.6V / 381.6V~518.4V / 508.8V~691.2V			
Max. Charge/Discharge Current	DC 25 A			
AC Input/Output				
Rated Output Power	5000W	8000W	10000W	12000W
Rated Apparent Power to Grid	5000VA	8000VA	10000VA	12000VA
Max. Apparent Power to Grid	5000VA	8000VA	10000VA	12000VA
Max. Apparent Power from Grid	10000VA	16000VA	16600VA	20000VA
Rated Voltage	AC 380 / 400 V			
Rated Frequency	50/60 (±0.2%)Hz			
Rated AC Current to Grid	7.2 A	11.6 A	14.4A	17.4A
Rated AC Current from Grid	14.4A	23.2A	24.1A	29.0A
Max. Output Fault Current	30A (rms),42.42A (peak)			
AC Output Maximum Output Overcurrent Protection	30A			
AC Input Power Factor	-0.9~0.9			
AC Output Power Factor	1(-0.9~+0.9adjustable)			
THDi	<3%			
EPS Output (With Battery)				
Max. Output Power	5000W	8000W	10000W	12000W
Rated Apparent Power	6000VA	9600VA	12000VA	12000VA
Max. Apparent Power	6000VA	9600VA	12000VA	12000VA
Rated Voltage	AC 380 / 400 V			

Normal Frequency	50/60 (±0.2%)Hz			
Rated Output Current	8.7A	13.9A	17.4A	17.4A
Max. Output Fault Current	30A(rms),42.42A(peak)			
EPS Output Maximum Output Overcurrent Protection	30A			
Switch Time	<10ms			
THDv @Linear Load	<3%			
Power Factor	-0.9~0.9			
Efficiency				
PV Max. Efficiency	97.6%			
PV Europe Efficiency	97%			
PV Max. MPPT Efficiency	99.9 %			
Battery Charge by PV Max. Efficiency	98%			
Battery Discharge Efficiency	96.7%			
General Data				
Dimension(W/D/H)	[W:700;D:263;H=500(Inverter)+n*300(Battery box), +20 (Base) ,2≤n≤4]mm			
Net Weight	230kg			
Operation Temp	-25°C~~+60°C			
Relative Humidity	0~95%			
Altitude	≤3000m			
Ingress Protection	IP65			
Cooling	Natural			
Inverter Topology	Non-isolated			
Over Voltage Category	III (AC), II (DC)			
Protective Class	Class I			
Active Anti-islanding Method	Frequency Shift			
Human Interface	LED/APP			
BMS Communication Interface	SPI			
Noise Emission	<25dB			
Standby Power Consumption	<5W			
Protection	Over/Under voltage protection, DC isolation protection, DC injection monitoring, Residual current detection, Anti-islanding protection, Over load protection, Battery Input reverse polarity protection, PV reverse polarity protection, Surge protection, Over heat protection.			

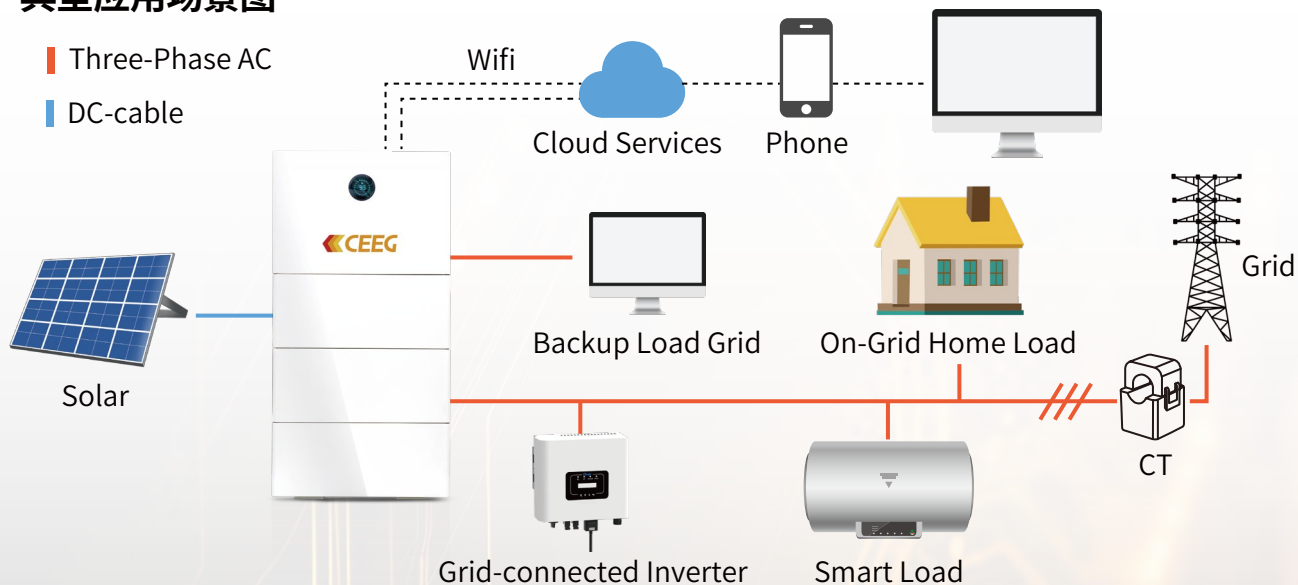
Order Information

Model	Basic Configuration	Lead Time
CHIEF-5.0K	7.68 kWh, 5kW	30days
	11.52 kWh, 5kW	30days
	15.36 kWh, 5kW	30days
CHIEF-8.0K	7.68 kWh, 8kW	30days
	11.52 kWh, 8kW	30days
	15.36 kWh, 8kW	30days
CHIEF-10.0K	7.68 kWh, 10kW	30days
	11.52 kWh, 10kW	30days
	15.36 kWh, 10kW	30days
CHIEF-12.0K	7.68 kWh, 12kW	30days
	11.52 kWh, 12kW	30days
	15.36 kWh, 12kW	30days

Main Application Scenarios

- Three-phase power supply systems for homes and offices
- Self-consumption using new energy sources
- Improve power quality
- Earn peak-valley electricity price differences
- Serve as a backup power source to enhance home electricity consumption stability

典型应用场景图



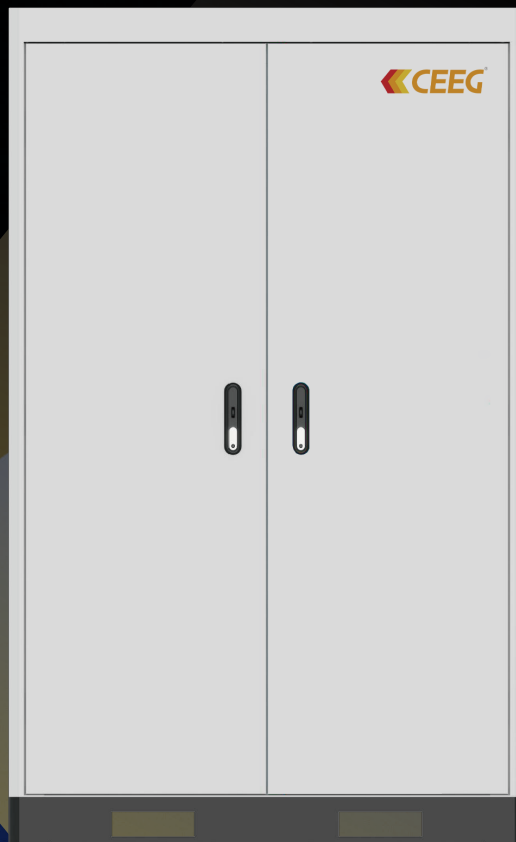
1 100kWh Air-Cooled Energy Storage System

Product Introduction:

The 100kWh air-cooled energy storage system (Model: CEIC-W-100kWh-50kW) internally integrates DCDC energy storage/photovoltaic-side voltage transformation, supporting connection to photovoltaic systems. It is capable of Real-time monitoring of smoke and temperature, along with multiple-point real-time monitoring by BMS and EMS to ensure the system's safe and reliable operation. The EMS system enables the storage, transfer and exchange of energy between the storage device, the photovoltaic system, the grid and the load, thus optimizing the energy, improving the stability of the power supply system and the quality of the power supply.

Product Features:

- Modular design with flexible configuration
- Intelligent Energy Management System (EMS) with multiple management strategies
- Seamless switching between STS and off-grid operation
- Integrated components such as DC/DC, supporting photovoltaic integration
- Battery system with hierarchical management, real-time monitoring, and dual-layer thermal insulation design
- Multiple intelligent safety systems
- Professional design and one-stop service

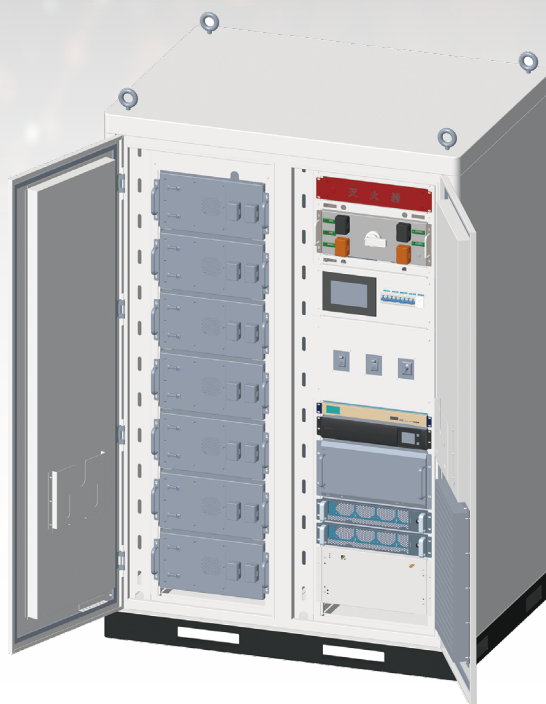


Product Parameters

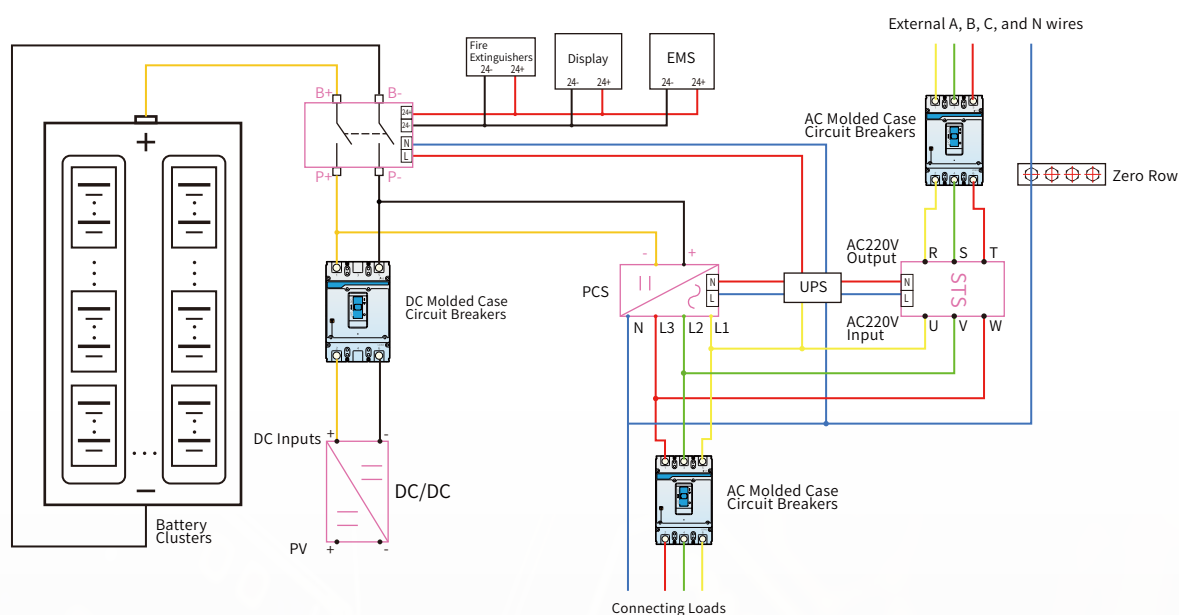
Parameter	Parameter specification
Inverter	
Specification	50kW
DC Voltage Range	560V~850V
Max. DC Current	90A
AC Voltage Range	320V~460V
Norminal Frequency	50/60Hz (±5adaptive)
Connection Method	3P3L / 3P4L
Rated Current	72A
AC Voltage Harmonics	<3% (linear load)
Protection	Battery anti-reverse connection, DC overcurrent protection, AC overcurrent protection, AC overvoltage protection, surge protection
Battery Module Technical Specification	
Weight	110kg
Dimension (W/D/H)	418x770x235mm
Max. Charge/Discharge Current	140A
Battery Capacity	14.336kWh
Nominal Battery Voltage	51.2V
Number of Cycles	≥6000@ (25°C)
Accreditations	The internal module has the following certifications: IEC62619, IEC61000, UN38.3+MSDS+ sea freight
General Data	
Dimension (W/D/H)	1350x1050x2080mm
Total Weight (with battery)	1.25t
Weight without Battery	0.35t
Ingress Protection	IP54
Rated Power	50kW
System Capacity	100.352kWh (MAX)
Battery Type	LiFePO ₄
Cooling	Air Conditioner
Application	Outdoor
Operating Temperature	-30°C~+50°C
Design Life	More than 10 years

Main Application Scenarios:

- Peak-valley price arbitrage
- Maximize the utilization of solar energy to reduce carbon emissions
- Enhance power supply stability
- Dynamic expansion of distribution systems
- Microgrid systems



Reference electrical topology diagram



Order Information

Model	Basic Configuration	Lead Time
CEIC-W-100kWh-50kW-DCDC	100kWh, 50kW, PV input supported	20days
CEIC-W-100kWh-50kW	100kWh, 50kW, PV input not supported	20days
Other power specifications can be customized		

2

200kWh air-cooled energy storage system

Product introduction:

The 200kWh Air-Cooled Energy Storage System (Model: CEIC-W-200kWh-100kW) internally integrates DCDC energy storage/photovoltaic-side voltage transformation, supporting connection to photovoltaic systems. It is capable of Real-time monitoring of smoke and temperature, along with multiple-point real-time monitoring by BMS and EMS to ensure the system's safe and reliable operation. The EMS system enables the storage, transfer and exchange of energy between the storage device, the photovoltaic system, the grid and the load, thus optimizing the energy, improving the stability of the power supply system and the quality of the power supply.

Product Features:

- Modular design with flexible configuration
- Intelligent Energy Management System (EMS) with multiple management strategies
- Seamless switching between STS and off-grid operation
- Integrated components such as DC/DC, supporting photovoltaic integration
- Battery system with hierarchical management, real-time monitoring, and dual-layer thermal insulation design
- Multiple intelligent safety systems
- Professional design and one-stop service



Product Parameters

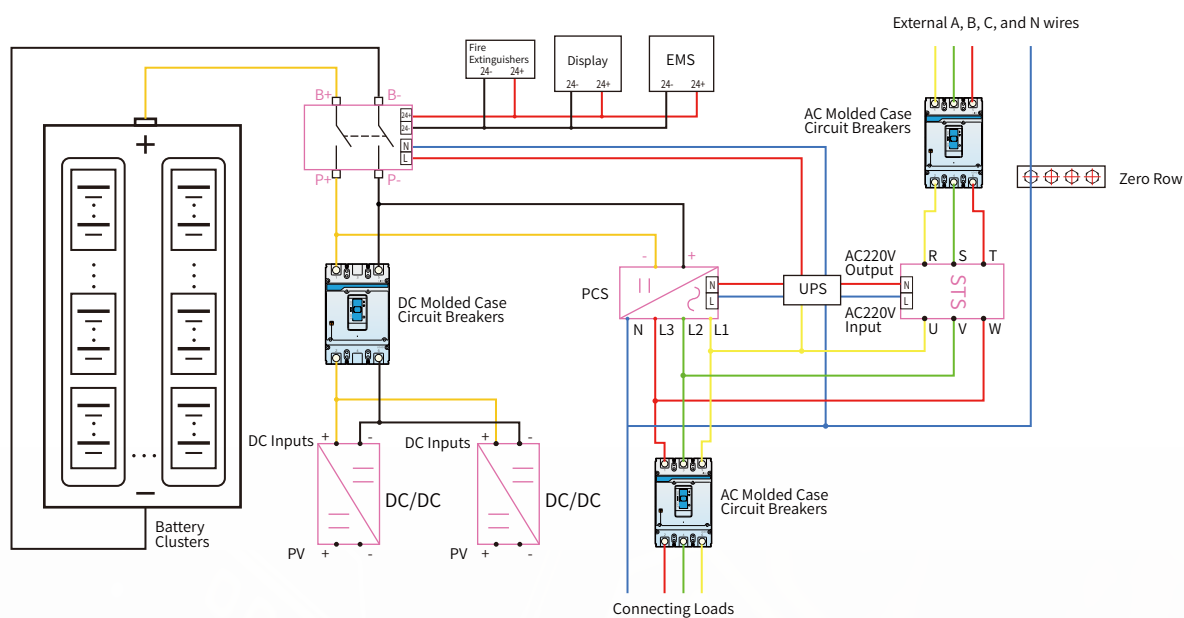
Parameter	Parameter specification
Inverter	
Specification	100kW
DC Voltage Range	615V~900V
Max. DC Current	150 A
AC Voltage Range	320V~460V
Norminal Frequency	50/60Hz (±5 Adaptive)
Connection Method	3P3L / 3P4L
Rated Current	145A
AC voltage harmonics	<3% (Linear Load)
Protection	Battery anti-reverse connection, DC overcurrent protection, AC overcurrent protection, AC overvoltage protection, surge protection
Battery Module Technical Specification	
Weight	110kg
Dimension (W/D/H)	418x770x235mm
Max. Charge/Discharge Current	140A
Battery Capacity	14.336kWh
Nominal Battery Voltage	51.2V
Number of cycles	≥6000@ (25°C)
Accreditations	The internal module has the following certifications: IEC62619, IEC61000, UN38.3+MSDS+ sea freight
General Data	
Dimension (W/D/H)	1350x1550x2080 mm
Total Weight (with battery)	2.05t
Weight without Battery	0.35t
Ingress Protection	IP54
Rated Power	100kW
System Capacity	200.7kWh (MAX)
Battery Type	LiFePO ₄
Cooling	Air Conditioner
Application	Outdoor
Operating Temperature	-30°C~+50°C
Design Life	More than 10 years

Main Application Scenarios:

- Peak-valley price arbitrage
- Maximize the utilization of solar energy to reduce carbon emissions
- Enhance power supply stability
- Dynamic expansion of distribution systems
- Microgrid systems



Reference electrical topology diagram



Order Information

Model	Basic Configuration	Lead Time
CEIC-W-200kWh-100kW-DCDC	200kWh, 100kW, PV input supported	20days
CEIC-W-200kWh-100kW	200kWh, 100kW, PV input not supported	20days
Other power specifications can be customized		

1 Energy Storage Step-up Substation integrated with Converter

Product Introduction:

The Energy Storage Step-up Substation integrated with Converter can cover 6kV to 35kV on the high-voltage side, and AC voltages from 0.315kV to 0.69kV on the low-voltage side. The transformer encompasses various models of American, Chinese and dry-type transformers, with energy efficiency levels executed according to design requirements. The DC side voltage can reach up to 1500VDC, and the standalone maximum capacity of the energy storage boosting inverter is 6.8MW.

The energy storage system can be connected to the power grid as an independent system, playing the role of peak shaving, valley filling, and reactive power compensation, etc. It can also form a solar energy storage system with new energy generation, smoothing the grid power from renewable sources. Moreover, the energy storage system can be combined with wind power, photovoltaic power, and other renewable energy systems to create a microgrid system in the load center, to increase the efficiency of energy utilization, enhance the quality of power, improve the reliability of power supply, and embodied in the green environmental protection, etc.

Through optimized configuration of batteries, inverters, bidirectional inverters, and wind and solar equipment, we can realize projects such as energy storage systems, solar energy storage systems, and energy storage microgrid systems. Additionally, we provide comprehensive customer services, including project consulting, design, system integration, and station-level monitoring.



Energy Storage Step-up Substation Integrated with Converter (Dry Type Transformer)



Energy Storage Step-up Substation Integrated with Converter (Oil-immersed Type Transformer)

Product Features

- **Turnkey Solution**

Integrate PV inverter, transformer and switchgear in one unit, Integral commissioning from the factory, saving time for on-site installation and intermodulation Containerized shell, no need for special spreader, easy transportation and lifting.

- **Strong Environmental Adaptability**

Strong anti-corrosion capability: The containerized shell uses highly weather-resistant steel plates with better corrosion resistance than regular carbon steel.

Thermal insulation: The internal shell is equipped with heat insulation board, which has good fireproof, heat insulation and heat preservation effect.

Ventilation and heat dissipation: Specially designed air inlets prevent dust and sand effectively.

- **High Reliability and Safety**

Uses epoxy resin cast dry-type transformers, which are flame-resistant products with no explosion or fire hazards.

Dry-type transformers have passed C2, E2, and F1 tests conducted by the National Transformer Quality Supervision and Inspection Center.

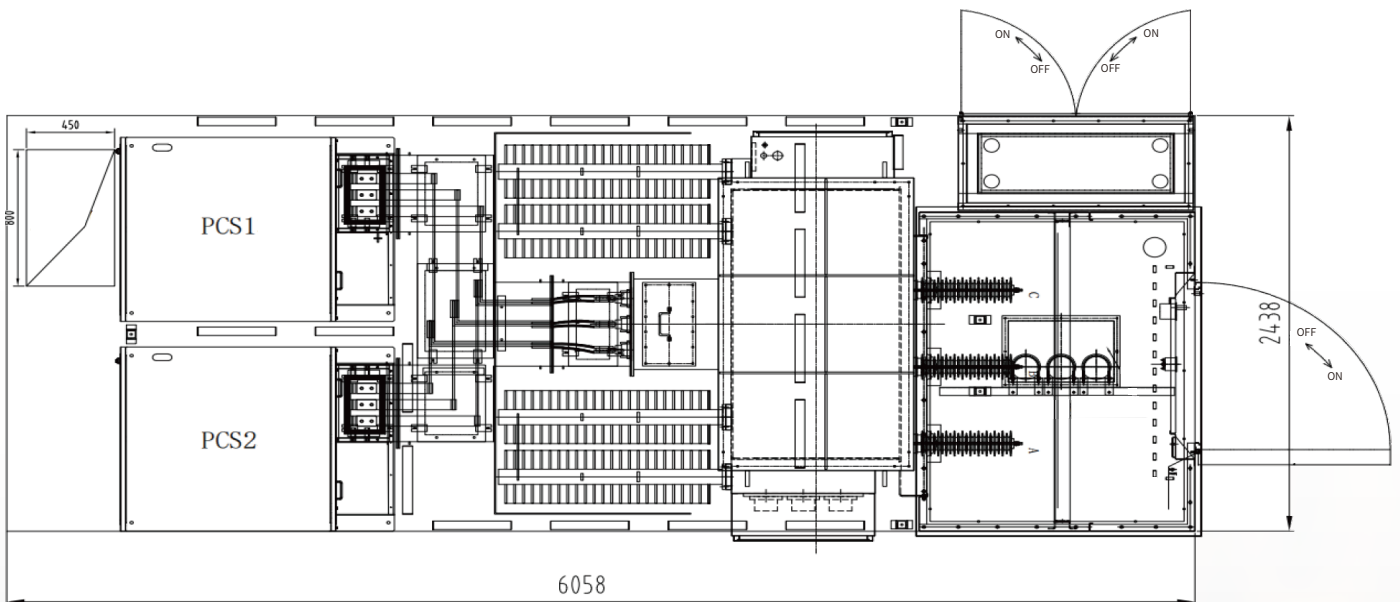
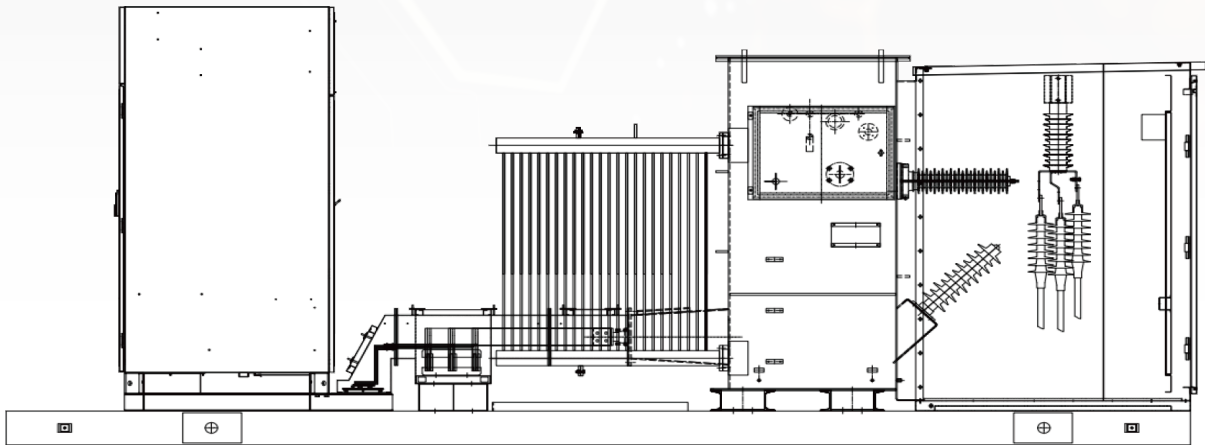
- **Low Investment, High Returns**

Reduce investment by 15% to 20% compared to the conventional "inverter room + photovoltaic box transformer". Reduce the number of installation bases from 2 to 1. Save 50% in installation and commissioning time. Save cables for connection between inverter rooms and photovoltaic box transformers by using copper bars between inverters and transformers, Save two low-voltage switchgear units between inverters and transformers by optimizing structure.

- **Flexible and Diverse Product Solutions**

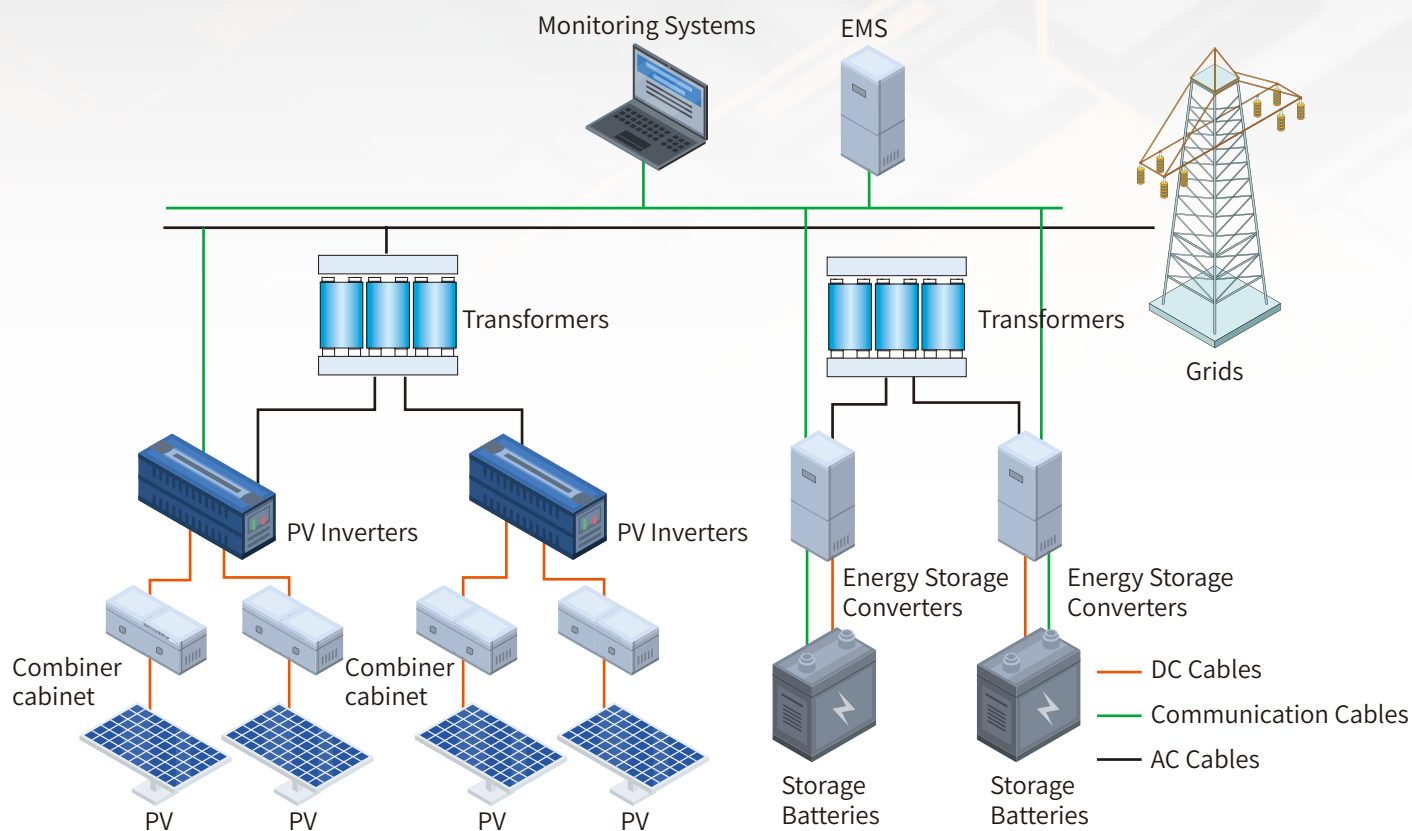
Designed to fully meet the actual needs of customers and provide them with satisfactory one-stop solutions.

Typical Product Dimensions (Oil-Immersed Transformer Lifting Plan)



Main Application Scenarios

Scenario One: Energy Storage for Photovoltaic Power Plants



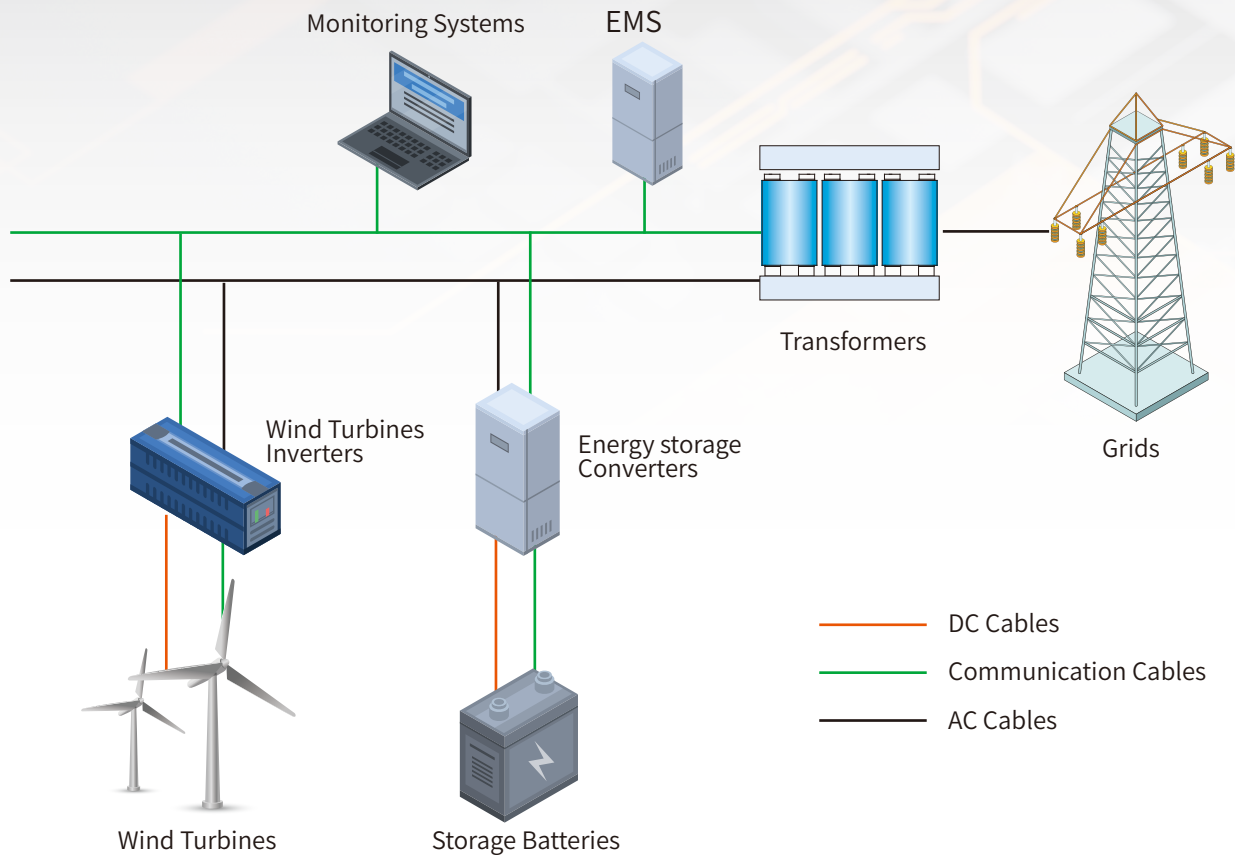
Solution Principle

Photovoltaic power generation exhibits characteristics such as intermittency, variability, and unpredictability. The large-scale integration of photovoltaic inevitably will increase the difficulty of grid regulation and lead to significant curtailment issues. The addition of energy storage to photovoltaic power stations effectively addresses these challenges by storing surplus electricity that cannot be consumed. This stored energy is then utilized in times of power shortage or peaks, aiming to smooth out the irregularities inherent in renewable energy generation.

Advantages of the Solution

- Mitigate curtailment issues, effectively addressing energy absorption challenges
- Enhance the quality of electric power by smoothing out random fluctuations in output
- Elevate the precision of power forecasting
- Involve energy storage in photovoltaic power plants in auxiliary services, enhancing the output characteristics of the solar facility

Scenario Two: Wind Power Plant Energy Storage Application



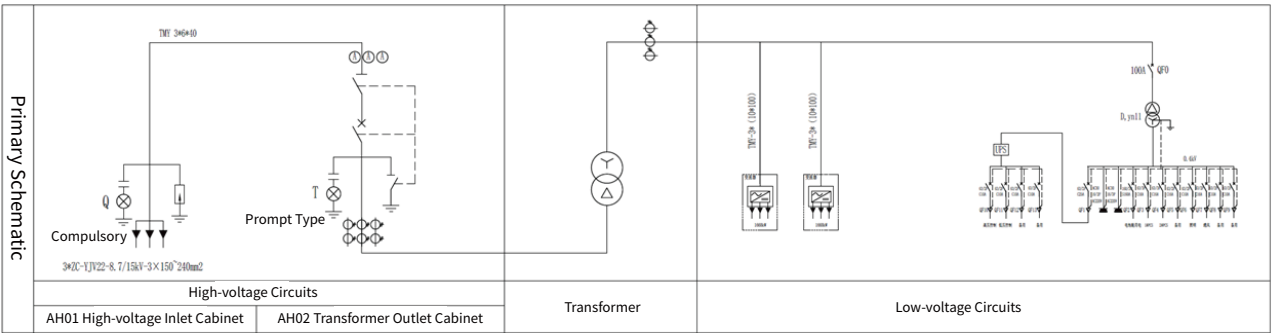
Solution Principle

Due to the intermittent and fluctuating nature of wind power, large-scale grid connection can impact on the stable operation of the power system, making the power system to increase the demand for regulating resources. The introduction of energy storage systems can provide buffering for grid-connected wind power, mitigating output fluctuations and facilitating energy dispatch. It can dynamically absorb and release energy quickly, improving power quality, enhancing the controllability of wind power, and promoting power system stability.

Advantages of the Solution

- Alleviate wind curtailment issues and enhance economic benefits
- Improve power quality by mitigating random output fluctuations
- Augment accuracy in forecasting electrical power
- Improve energy storage in wind farms

Product Reference Schematic



Order Information

Designation	Norm	Lead Time
Energy Storage Step-up Substation integrated with Converter (Dry Type Transformer)	Customized according to parameters and functional requirements	Reference 90 days
Energy Storage step-up substation integrated with Converter (Oil-immersed Type Transformer)	Customized according to parameters and functional requirements	Reference 90 days

Product Introduction

The battery compartment, equipped with A-grade batteries, is perfectly suited for energy storage needs in photovoltaic and wind power projects, ranging from 1MW/2MWh to 2.5MW/5MWh. It also supports scenarios with a discharge rate of 1C. It features state awareness and fault prediction, and incorporates multiple edge computing capabilities to enhance protection levels. It can be used in conjunction with the Boost Converter and Inverter integrated unit.



Product Features

- Long life, up to 8000 + system cycles
- Space saving, energy density per unit area increased by $\geq 30\%$
- Liquid-cooled system, system-level SOC difference $< 3\%$

Product Parameters

Model	CEGS-W-3000kWh-1331V	CEGS-W-4000kWh-1331V	CEGS-W-5000kWh-1331V
Battery			
Battery Type	LiFePO ₄		
Cell Specification	3.2V/280Ah		
Rated Capacity	2982.4kWh	4100kWh	5219.2kWh
Rated Voltage	DC1331.2V		
Voltage Range	DC 1164.8V ~1497.6V		
Pack Type	1P52S		
Number of Clusters	8S8P	8S11P	8S14P
Number of cycles	8000@（25℃）		
Cooling	Liquid-cooled		
Available Capacity	95%		
Fire Fighting System	Thermal Aerosol		
General data			
Ingress Protection	IP55		
Dimension	20 feet	30 feet	40 feet
Weight	Approx. 32 tons	Approx. 42 tons	Approx. 52 tons

Order Information

Model	Basic Configuration	Lead Time
CEGS-W-3000kWh-1331V	3000kWh	60days
CEGS-W-4000kWh-1331V	4000kWh	60days
CEGS-W-5000kWh-1331V	5000kWh	60days
Other power specifications can be customized		

The Achievements of Energy Storage



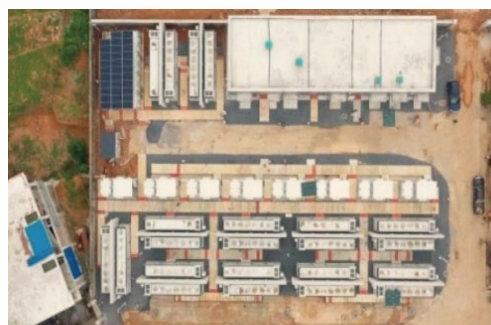
15MW Photovoltaic Power Generation and 5MWh Energy Storage Project in the Central African Republic



Guoxuan High-Tech Energy Storage Project



Demonstration Station for 100,000kW/200,000kWh Energy Storage in Rulin, Chengbu, Hunan



Technical Agreement for 20MW Energy Storage Transformer in Yongzhou, Hunan — Yongzhou Matangtang Energy Storage Power Station



Microgrid Energy Storage Inverter Project in Mongolia Power Grid



Boosting and Inverting Substation and Transformer for 100MW/200MW Project in Golmud, Qinghai



Ronghe Yuan 15MW Energy Storage Project in Haiyang, Shandong Peninsula



Sample Machine of Huichuan Energy Storage Integrated Machine in Suzhou



Procurement of Zhiguang Energy Storage
35KV Kilometers Transformer



20MW Energy Storage Project in Feidong, Anhui



Zhongtian Hunan Dama Energy Storage
Integrated Machine Transformer



Fatai Electric (Jiangsu) Co., Ltd. Energy
Storage + Intelligent Project



Guoyuan Power Group Co., Ltd. Energy
Storage + Intelligent Project



China Grain and Oil (Zhanjiang) Industrial Co., Ltd.
Energy Storage + Intelligent Project

The Honors & Awards



Top 500 Asian Brands



China Brand Annual Award



Top 500 China Energy Group



Top 10 Well-known Brands in China's Electrical Industry



National Innovation Enterprise



National Contract-abiding and Credit-worthy Enterprise



Billion scale enterprises in Jiangsu Province



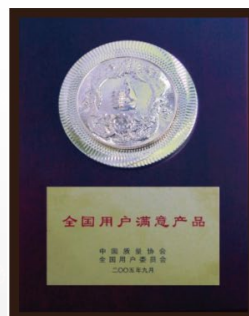
Jiangsu Province Demonstration Unit for the Integration of Informatization and Industrialization



Jiangsu Province Excellent Award for Quality Management



Top 500 Chinese Private Enterprises



National User-Satisfactory Products



Nanjing Mayor's Quality Award