WELTRUS

ENERGY CUBE
50kW-100kWh

HIGH PERFORMANCE
COMMERCIAL & INDUSTRIAL ESS

- PV / DG Application
- Intelligent Energy Control
- 98.8% Max. Efficiency
- IP54 Protection Degree

Integrated design

Adaptation for Multi-Scenario Deployment

Energy Cube 50kW-100kWh C&i ESS integrates photovoltaic inverters and a 100 kWh energy storage system. It includes battery cells, Battery Management System (BMS), photovoltaic inverters, fire protection system, distribution system, thermal management system, and energy management system. This achieves an integrated "PV + Energy Storage" solution. The cabinet system adopts a modular design, allowing flexible configurations for photovoltaic, batteries, and loads, meeting various user-side applications.

High Integration

The equipment is highly integrated,with a compact product size, occupying only 1.2 square meters per cabinet.

Reliable Performance

Low Loss Series Connection on the DC Side
Dynamic Temperature Regulation
Enhanced ESS Cycling Efficiency

Security and tability

Utilizing Top-Tier Battery Cell Suppliers
Battery Safety Warnings and Fault Switching
Automatic Fire System Response

Multi-Unit Parallel Expansion

Flexible Scalability, On-Demand Configuration
Supports Multiple Units
Parallel Cooperative Control

PV / DG Application

Directly connecting photovoltaic modules or diesel generators to establish an independent power grid.

APP Intelligent Control

Enhance energy efficiency by controlling the operational status and strategies of the devices through a mobile app.

Application Scenario

Savings on Electricity Costs through Peak-Off-Peak Price Differentials

During periods of low electricity prices, use the grid to charge the devices. During periods of high electricity prices, discharge the batteries to power the load.

Used as a Backup Power Source during Power Outages

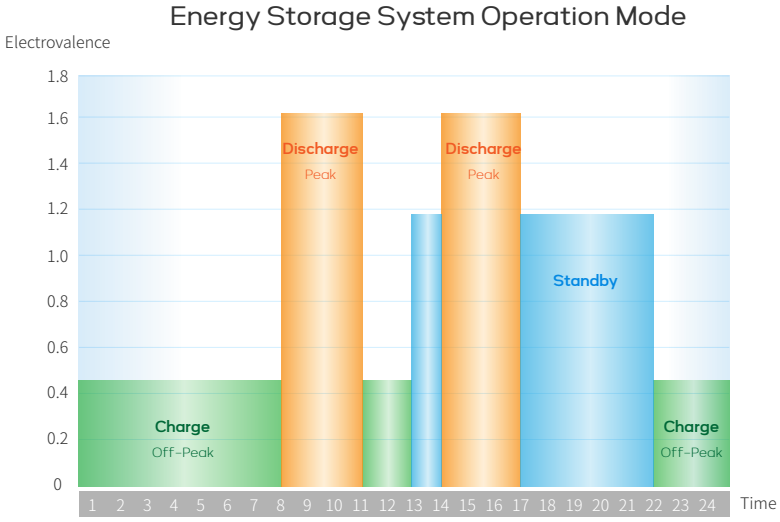
It can serve as a backup power source during power outages, providing power to critical facilities to ensure uninterrupted business operations.

Providing Power Compensation

Providing Power Compensation Function to Ensure Stable Power Supply for Businesses and Ensure Safe Equipment Operation.

PV and Energy Storage Integration Building an Independent Grid

Storing excess electricity generated by the photovoltaic system using the Energy Cube and converting it for later use.



22:00-8:00

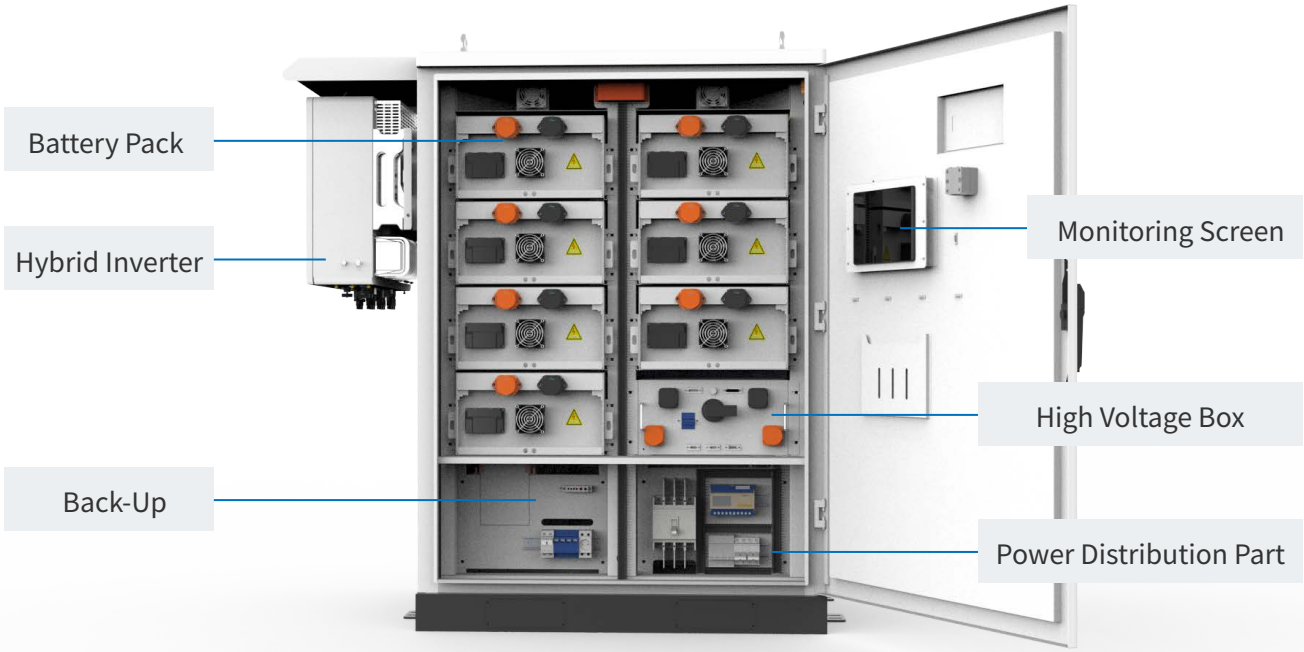
Charging during off-peak electricity price periods

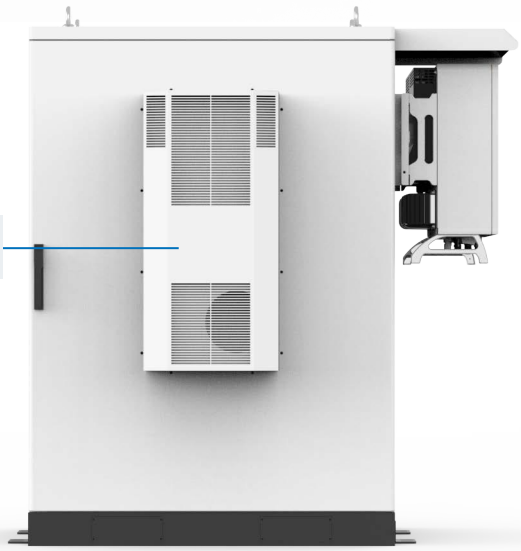
8:00-11:00 14:00-17:00

Discharging during peak electricity price periods

During device charging, the system automatically monitors the current electrical load and PV generation under the transformer, and adjusts the charging power of the system based on real-time load conditions. This control ensures that the total power consumption remains below the transformer capacity, preventing overload.

Product Exterior





Product Parameter

DC Parameter			
Battery Type	LFP	Operating Voltage Range	280V～408.8V
Combination Mode	1P112S	Charge/Discharge Current	100A/100A
Rated Capacity	280Ah	Cooling Mode	Air Cooling
Rated Energy	100kWh	Cycle Number	6000
Rated Voltage	358.4V	Fire Protection System	Aerosol Extinguishing
Rated Power	50kW	Detector Type	Temperature / Smoke Sensor / Water Leak
PV Parameter			
Maximum Input Power	75kW		
Maximum Dc Input Voltage	1000V		
Mppt Operating Voltage Range	200-850V		
Maximum Input Current	30A×4		
Rated Output Power	50kW		
Maximum Conversion Efficiency	98.8%		
Ac Parameter			
Rated Output Power	50kW		
Rated Voltage	3L/N/PE; 220/380V;230/400V;240/415V		
Grid Frequency	50/60Hz		
Maximum Output Current	83A		
Power Factor	0.8 Lead... 0.8 lag		
System Parameter			
Operating Environment	-20℃～50℃（Power derating 45℃+）		
Size (W*D*H mm)	1130*1000*1600		
Weight	About 1.4t		
Class Of Protection	IP54		
Allowable Relative Humidity	0-95%		
Allowable Altitude	≤2000m（Power derating 2000m + ）		
Certification Standard	IEC62619、EN62477-1、IEC 63056		

WELTRUS

Hybrid All-In-One ESS
50kW/215kWh

HIGH PERFORMANCE
COMMERCIAL & INDUSTRIAL ESS

- PV / DG Application
- Intelligent Energy Control
- 98.8% Max. Efficiency
- IP54 Protection Degree

Integrated design
Adaptation for Multi-Scenario Deployment

Hybrid All-In-One 50kW/215kWh C&i ESS integrates 50 kW hybrid inverter and a 215 kWh energy storage system. It includes battery cells, Battery Management System (BMS), hybrid inverter, fire protection system, distribution system, thermal management system, and energy management system. This achieves an integrated "PV + Energy Storage" solution. The cabinet system adopts a modular design, allowing flexible configurations for solar, batteries, and loads, meeting various user-side applications.

High Integration

The equipment is highly integrated,with a compact product size, occupying only 1.2 square meters per cabinet.

Reliable Performance

Low Loss Series Connection on the DC Side
Dynamic Temperature Regulation
Enhanced ESS Cycling Efficiency

Security and tability

Utilizing Top-Tier Battery Cell Suppliers
Battery Safety Warnings and Fault Switching
Automatic Fire System Response

Multi-Unit Parallel Expansion

Flexible Scalability, On-Demand Configuration
Supports Multiple Units
Parallel Cooperative Control

PV / DG Application

Directly connecting photovoltaic modules or diesel generators to establish an independent power grid.

APP Intelligent Control

Enhance energy efficiency by controlling the operational status and strategies of the devices through a mobile app.

Application Scenario

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Used as a Backup Power Source during Power Outages

It can serve as a backup power source during power outages, providing power to critical facilities to ensure uninterrupted business operations.

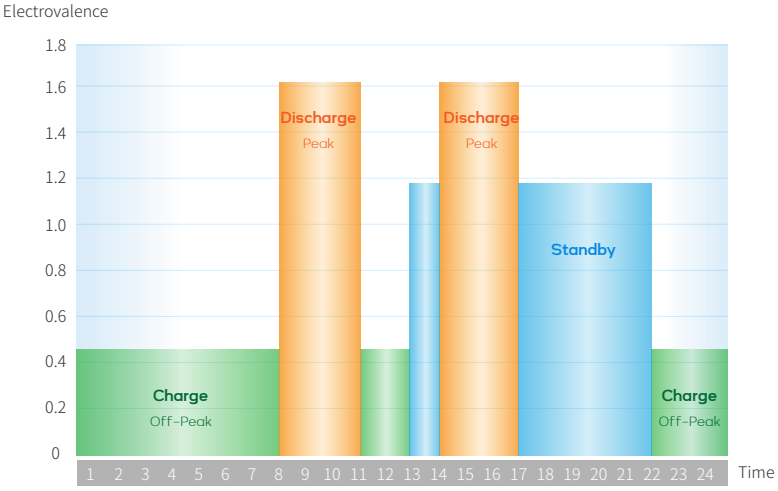
Providing Power Compensation

Providing Power Compensation Function to Ensure Stable Power Supply for Businesses and Ensure Safe Equipment Operation.

PV and Energy Storage Integration Building an Independent Grid

Storing excess electricity generated by the photovoltaic system using the Energy Cube and converting it for later use.

Energy Storage System Operation Mode



22:00-8:00

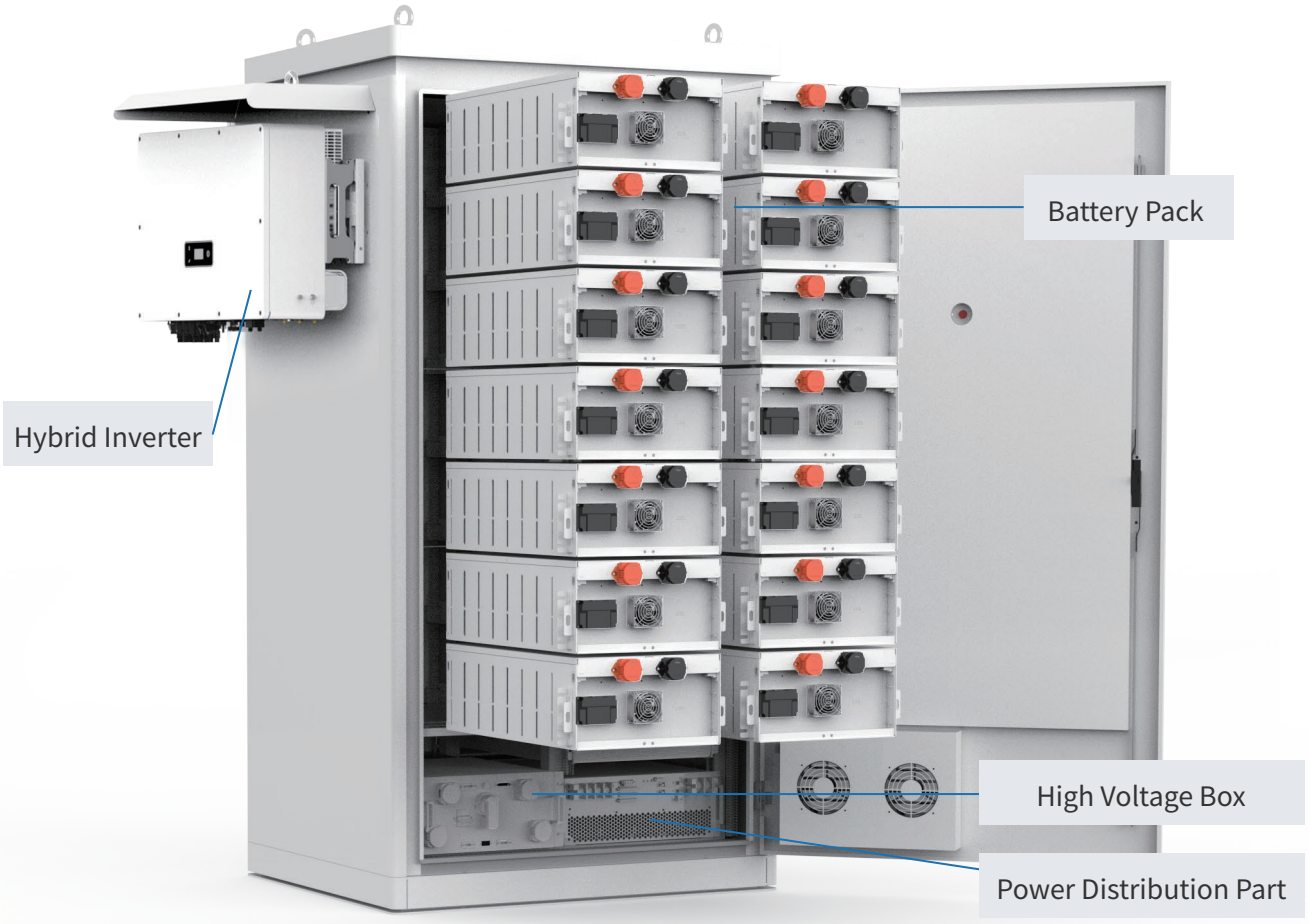
Charging during off-peak electricity price periods

8:00-11:00 14:00-17:00

Discharging during peak electricity price periods

During device charging, the system automatically monitors the current electrical load and PV generation under the transformer, and adjusts the charging power of the system based on real-time load conditions. This control ensures that the total power consumption remains below the transformer capacity, preventing overload.

Product Exterior



Product Parameter

DC Parameter			
Battery Type	LFP	Operating Voltage Range	627.2V～806.4V
Combination Mode	1P224S	Charge/Discharge Current	100A/100A
Rated Capacity	314Ah	Cooling Mode	Air Cooling
Rated Energy	215kWh	Cycle Number	8000
Rated Voltage	716.8V	Fire Protection System	Aerosol Extinguishing
Rated Power	50kW	Detector Type	Temperature / Smoke Sensor / Water Leak
PV Parameter			
Maximum Input Power	75kW		
Maximum Dc Input Voltage	1000V		
Mppt Operating Voltage Range	200-850V		
Maximum Input Current	30A×4		
Rated Output Power	50kW		
Maximum Conversion Efficiency	98.8%		
Ac Parameter			
Rated Output Power	50kW		
Rated Voltage	3L/N/PE; 220/380V;230/400V;240/415V		
Grid Frequency	50/60Hz		
Maximum Output Current	83A		
Power Factor	0.8 Lead... 0.8 lag		
System Parameter			
Operating Environment	-20℃～50℃（Power derating 45℃+）		
Size (W*D*H mm)	1000*1200*2380		
Weight	About 2.4t		
Class Of Protection	IP54		
Allowable Relative Humidity	0-95%		
Allowable Altitude	≤2000m（Power derating 2000m + ）		
Certification Standard	IEC62619、EN62477-1、IEC 63056		

WELTRUS

EnergyCube N

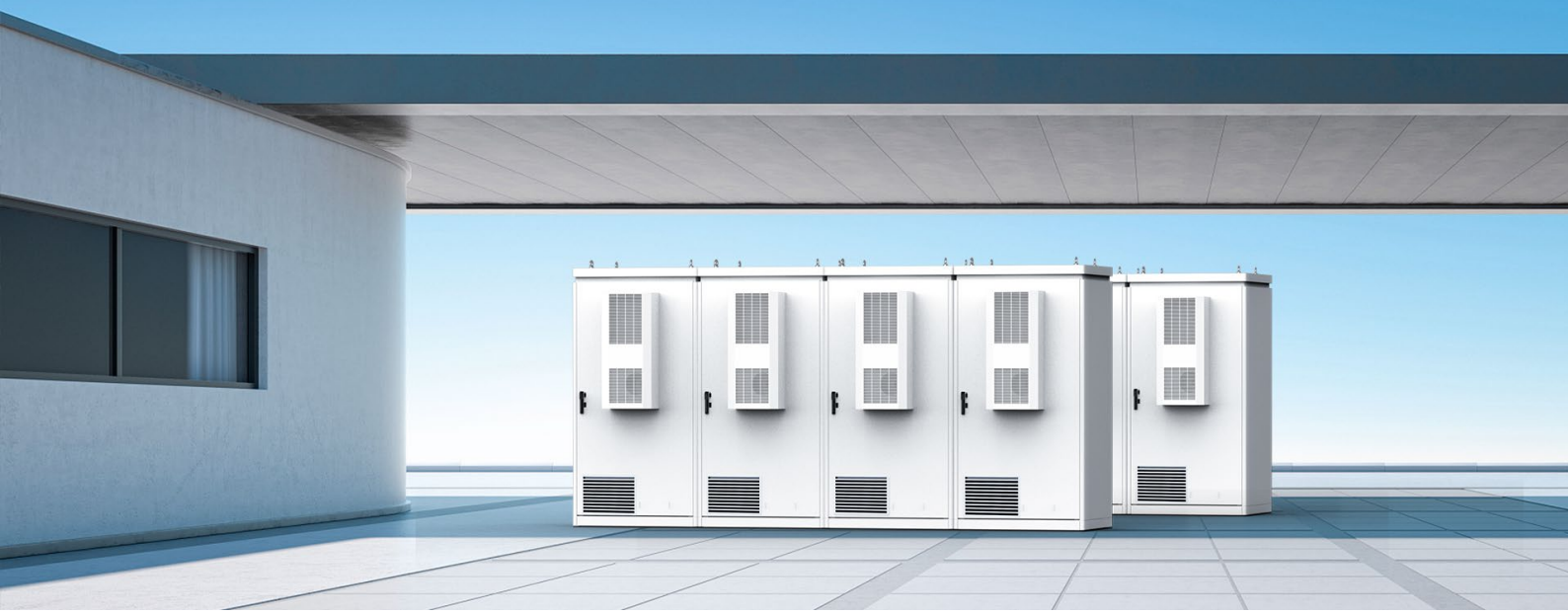
100kW/200kWh

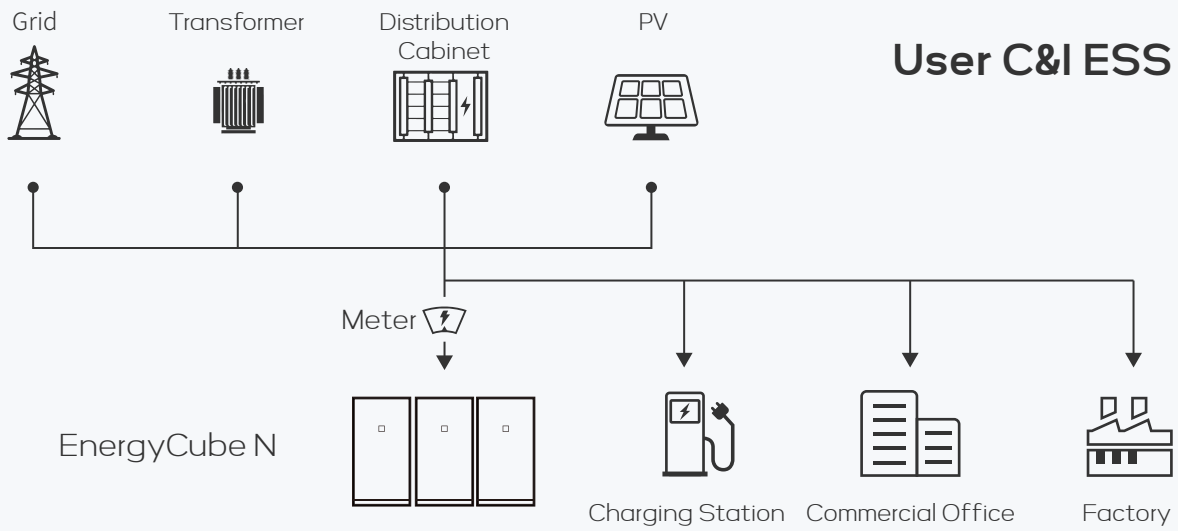
Smart Energy Storage Future

Integrated design

Adaptation for Multi-Scenario Deployment

The EnergyCube N has optimized the internal structure and cabinet design based on the first generation. It further integrates equipment such as the battery system, energy management system, AC/DC bidirectional inverter, and intelligent temperature control system. Compared to the previous generation, it saves nearly half of the volume while significantly improving product safety and application versatility. The Energy Cube can start the system without external power supply, establish an independent grid, and is suitable for various applications, including peak shaving, large-scale power grid expansion, factory backup power, commercial and industrial power support, emergency power supply, and charging station expansion.





High Integration

The equipment is highly integrated,with a compact product size, occupying only 1.2 square meters per cabinet.

Reliable Performance

Low Loss Series Connection on the DC Side
Dynamic Temperature Regulation
Enhanced ESS Cycling Efficiency

Security and tability

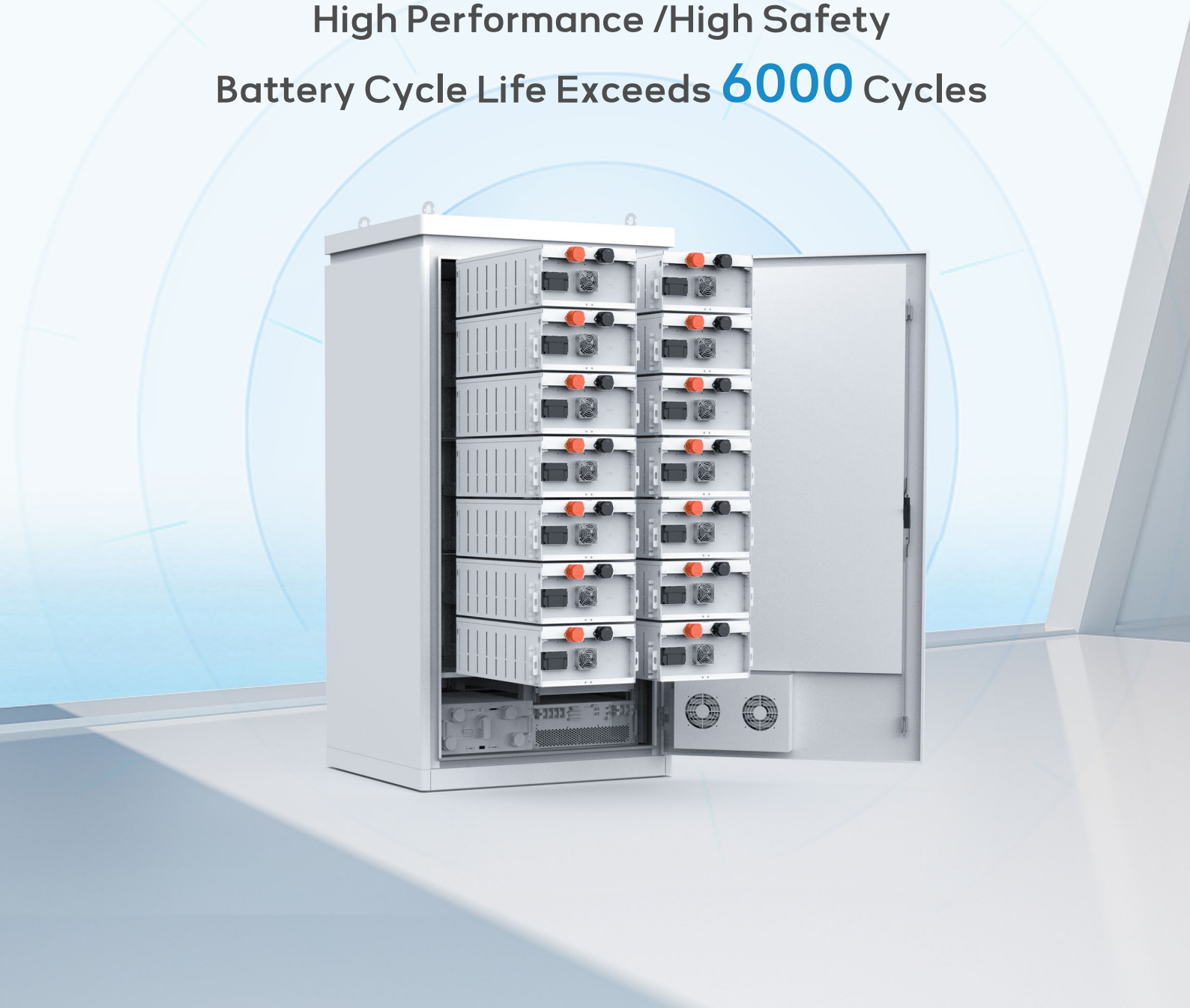
Utilizing Top-Tier Battery Cell Suppliers
Battery Safety Warnings and Fault Switching
Automatic Fire System Response

Multi-Unit Parallel Expansion

Flexible Scalability, On-Demand Configuration
Supports Multiple Units
Parallel Cooperative Control

High Performance /High Safety

Battery Cycle Life Exceeds 6000 Cycles



EMMS Energy Storage Cloud

Multiple Strategy Modes

Maximizing Economic Returns

Cloud Control

The system dynamically monitors and assesses the local device data, allocates power outputs for various energy storage devices, coordinates power among multiple devices, optimizes operational modes, ensuring the highest system utilization efficiency and maximum returns.

Security Monitoring

24/7 Cloud-Based Real-Time Monitoring, Analyzing Battery Pack Consistency and Safety, Advanced Algorithms Predict Potential Risks, Real-Time Warnings, Ensuring Battery and Equipment Safety, Rapid Dispatch and Repair in Case of System Failures.

Increase Earnings

Real-time monitoring of device operation status, peak and off-peak power consumption, load power, and energy storage revenue through the system. Achieve remote control of devices and online system updates, optimize device operation strategies, offer peak shaving, demand control, emergency control, load tracking, and various other strategies to enhance overall economic benefits.

Application Scenario

Savings on Electricity Costs through Peak-Off-Peak Price Differentials

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Providing Power Compensation

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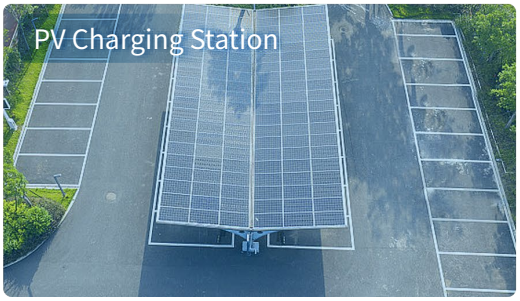
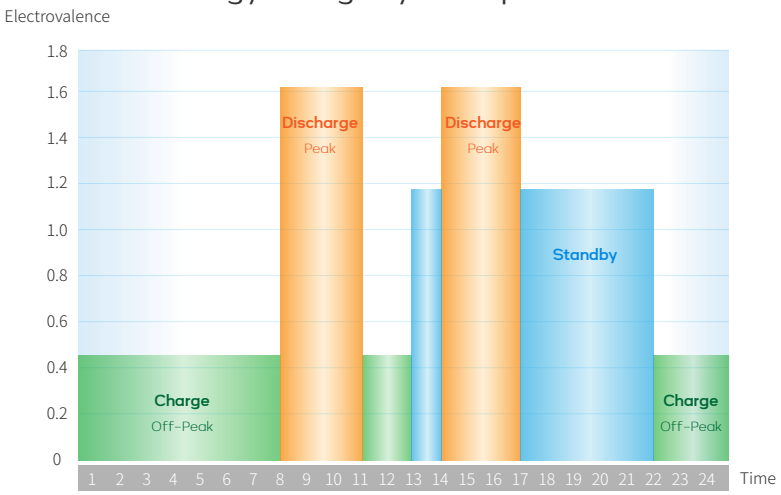
PV and Energy Storage Integration Building an Independent Grid

Storing excess electricity generated by the photovoltaic system using the Energy Cube and converting it for later use.



Energy Storage System Operation Mode



22:00-8:00

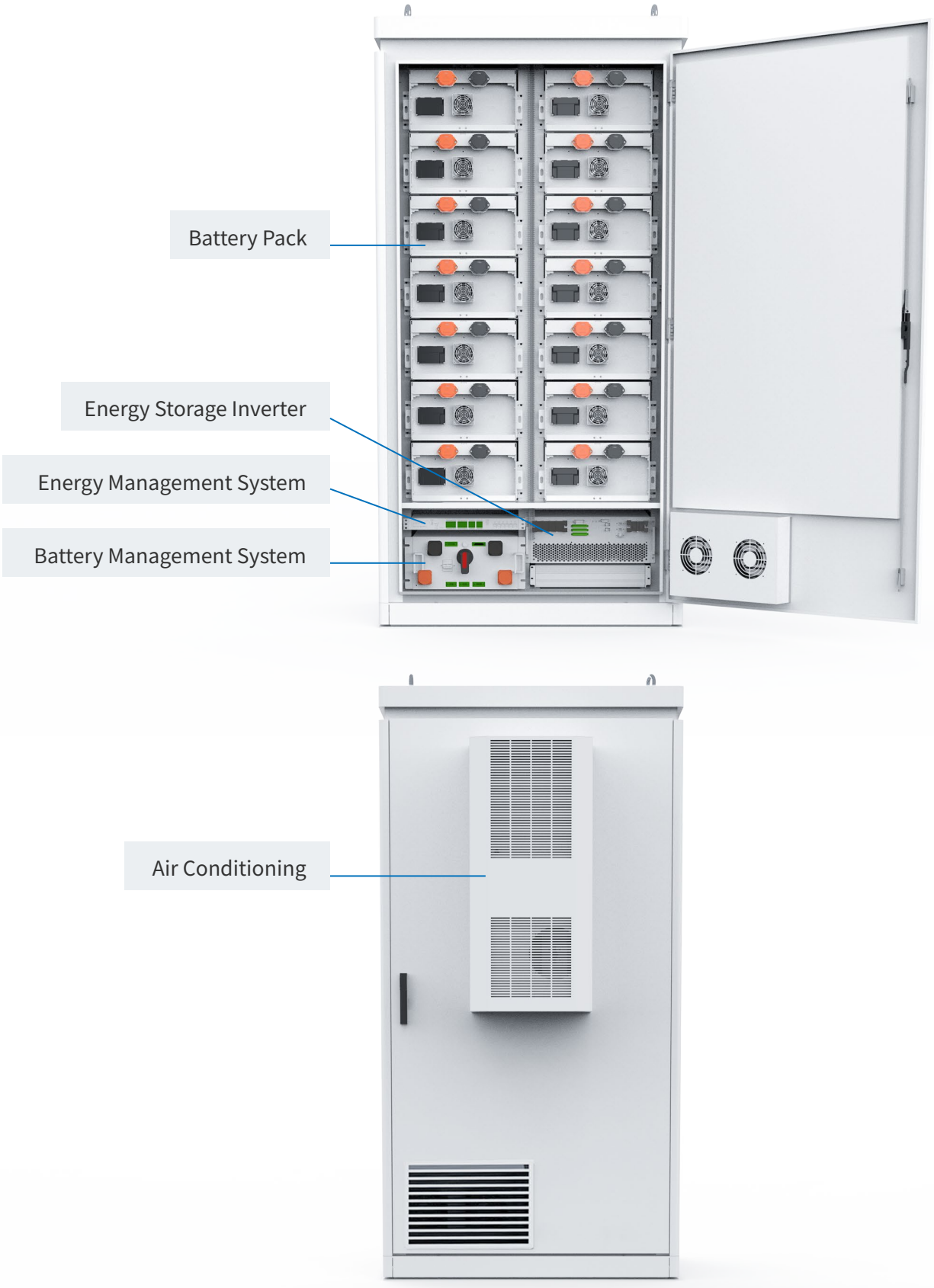
Charging during off-peak electricity price periods

8:00-11:00 14:00-17:00

Discharging during peak electricity price periods

During device charging, the system automatically monitors the current electrical load and PV generation under the transformer, and adjusts the charging power of the system based on real-time load conditions. This control ensures that the total power consumption remains below the transformer capacity, preventing overload.

Product Exterior



Product Parameter

Specification	Parameter
Rated Capacity	200.7kWh, 25°C@0.5CRated
External Dimensions	2380*1200*1000mm(H*W*D)
Weight	About 2.4t
Rated DC Voltage	716.8V
Operating DC Voltage	627~817V
Maximum Charging/Discharging Power	100kW
AC Output Current	140A
Operating Environment	Below 2000 meters above sea level
Thermal Management	Automatic Air Conditioning
Grid-Connected/Off-Grid Mode (Optional)	Manual/Automatic
Output Mode	Three-Phase Four-Wire
Fire Suppression Method	Aerosol Automatic Fire Suppression
System Protection Level	IP54
Operating Environment	-15°C-50°C(Power Derating Above 40°C)
External Communication Protocols	ModBUS-TCP
AC Grid-Connection Parameters	
Rated Grid Voltage	400Vac
Voltage Range	-15%～+10%
Rated Frequency	50Hz
Maximum Output Current	150A
Power Factor	>0.99 (Rated Output Power)/1 (Lead)-1 (Lag)
Off-Grid Output Characteristics	
Rated Output Voltage	400Vac
Output Voltage Precision	1%
Maximum Output Current	150A
Voltage Distortion	＜1%(Linear Load)
Rated Output Frequency	50Hz
Overload Capability	110%
Battery Module	
Battery Model	51.2V280Ah(1P16S)
Battery Standards	GB/T 36276 ,UN38.3

Due to ongoing innovation, research and development, and product improvements, the technical specifications included in this document may have slight variations, and WELTRUS does not guarantee their complete accuracy.

WELTRUS

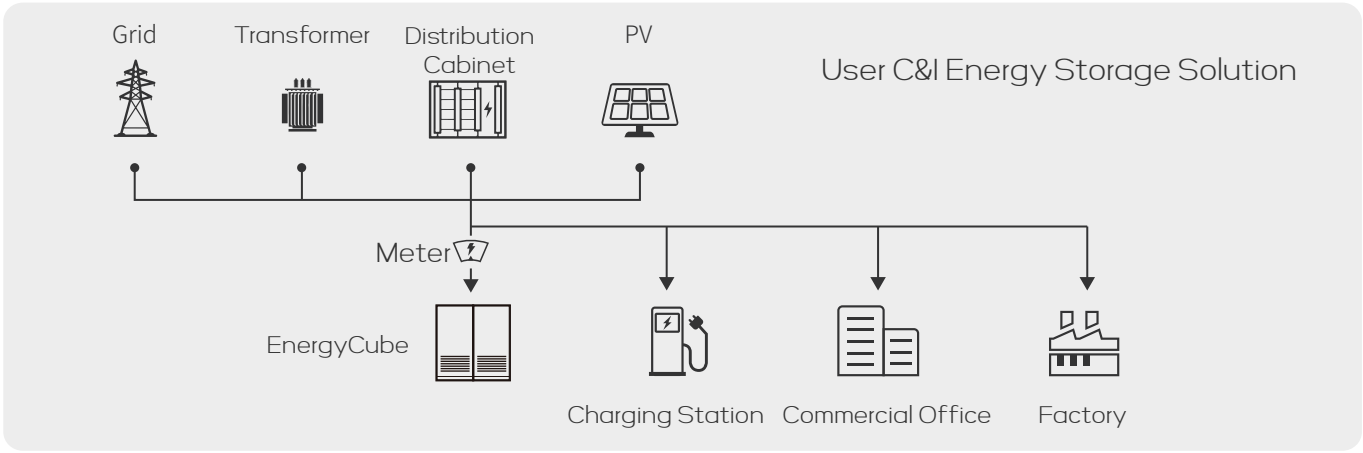
COMMERCIAL & INDUSTRIAL ESS

Energy Cube Liquid-Cooling

105kW/215kWh

POWERFUL ENERGY FULLY EVOLVED

The liquid-cooled Energy Cube utilizes an independent liquid cooling system, achieving higher energy density and cooling capacity within a compact design. It offers high efficiency, low noise, safety, reliability, and easy scalability. When integrated with PCS (Power Conversion Systems), it can regulate grid voltage, correct three-phase imbalance, and manage harmonics, enhancing power quality. With a footprint of only 1.3 ㎡, its modular design and high protection level make it adaptable to various applications, serving as a backup power source to help businesses reduce energy costs and increase the use of green energy.



Ultimate Temperature Control

Dynamic Liquid Cooling

Independent Liquid Cooling

Features liquid cooling design with low noise operation at ≤75dB.

Safe & Reliable

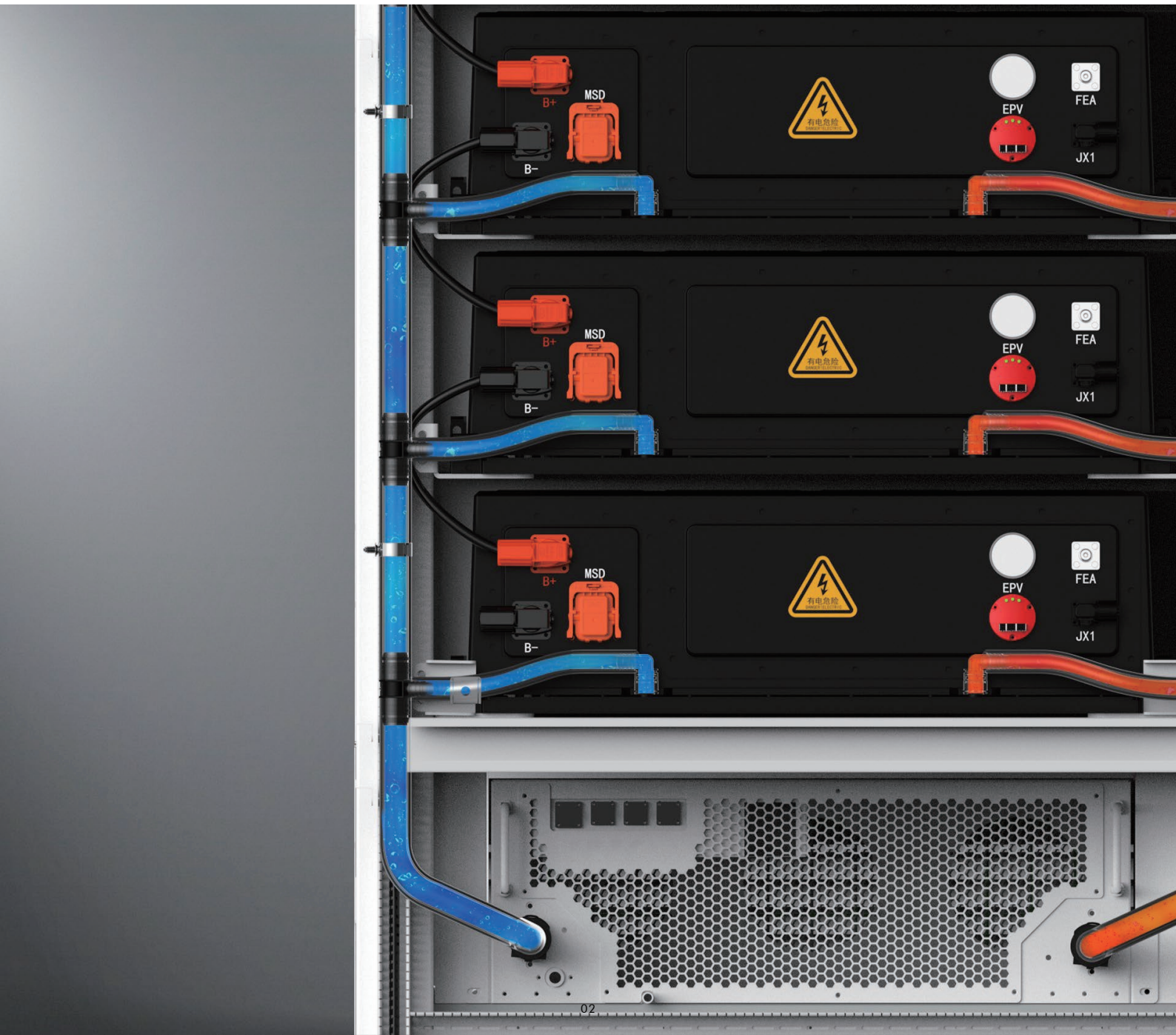
Partitioned system isolation with active safety monitoring and PACK-level immersion fire protection technology.

Cloud-Edge Collaboration

24/7 real-time monitoring with multiple operation control modes.

Modular Design

Modular structure for easy installation and commissioning, allowing flexible expansion as needed.



EMS Energy Storage Cloud

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Providing Power Compensation

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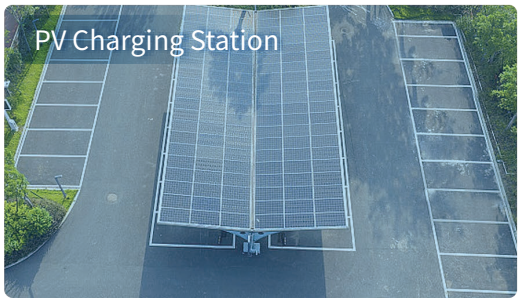
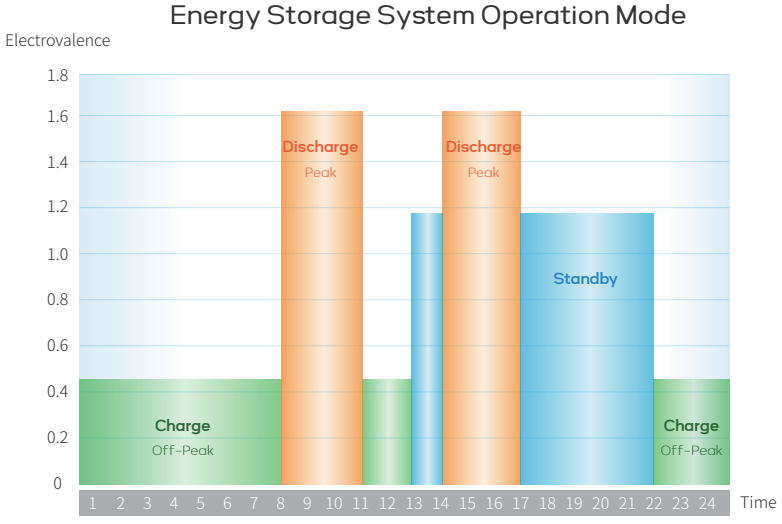
PV and Energy Storage Integration Building an Independent Grid

Storing excess electricity generated by the photovoltaic system using the Energy Cube and converting it for later use.



Energy Storage System Operation Mode



22:00-8:00

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Discharging during peak electricity price periods

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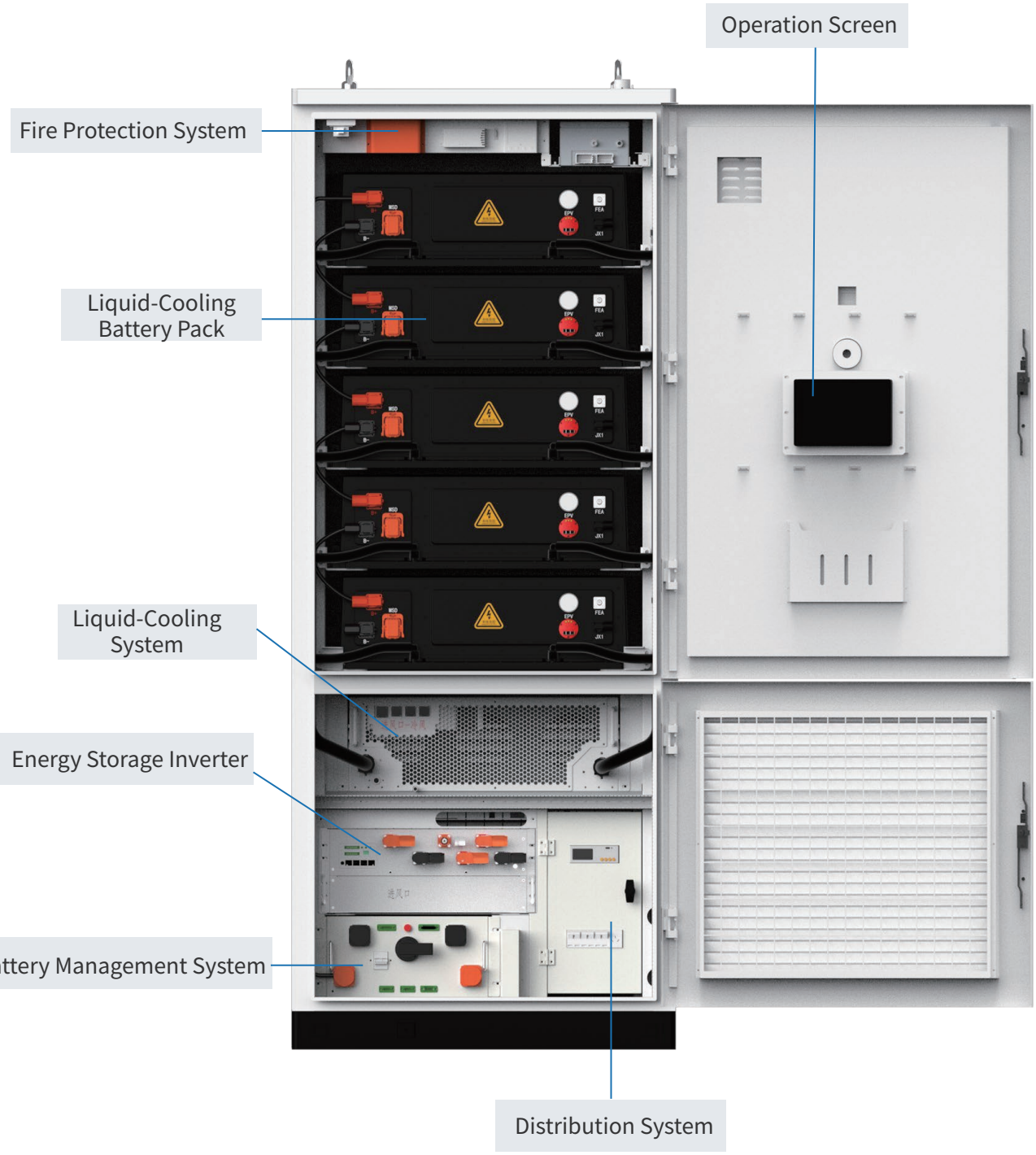
Product Appearance



Product Parameter

DC Side Parameters			
Battery Type	LFP	Operating Voltage Range	600V～876V
Configuration	1P240S	Cooling Method	Liquid cooling
Rated Capacity	280Ah	Coolant	Ethylene glycol solution (50% v)
Rated Energy	215kWh	Cycle Life	6000 cycles
Rated Voltage	768V	Fire Protection System	Perfluorohexanone + Aerosol + Water fire suppression
Rated Power	105kW	Detector Type	Temperature, smoke, CO
Rated Charge/Discharge C-rate	0.5P		

AC Side Parameters	
Rated AC Power	105kW
AC Overload Capability	115.5kW
Wiring Method	Three-phase, four-wire
Allowed Grid Voltage	380V（-20%～+15%）
Allowed Grid Frequency	50Hz/60Hz±2.5Hz
Total Harmonic Distortion (THD)	⩽3% (at full load)
Power Factor	-0.99/-1~1
DC Component in Current	⩽0.5%
Charge/Discharge Conversion Time	＜100ms
Maximum Conversion Efficiency	⩾98%

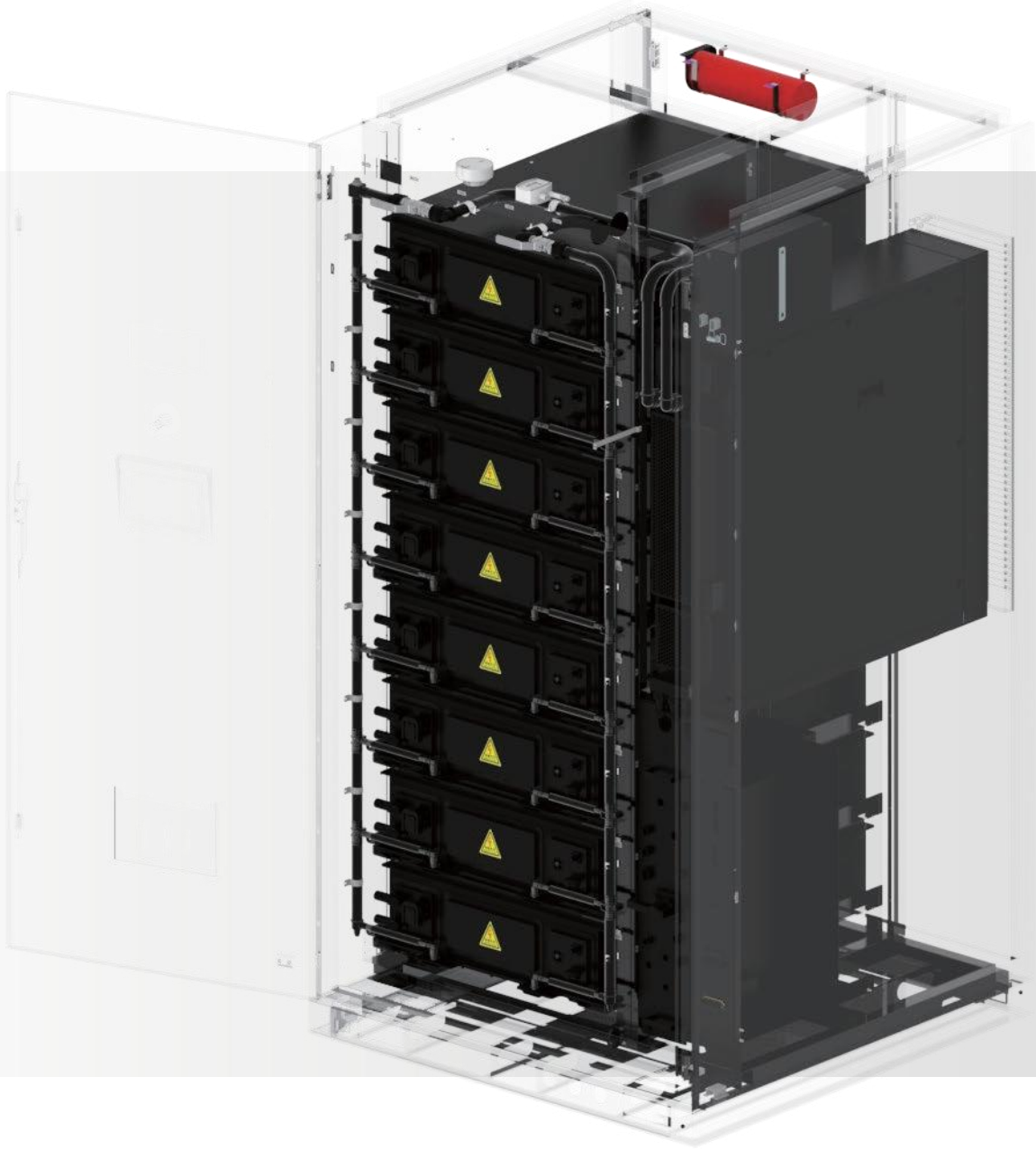
System Parameters	
Operating Environment	-20°C to 50°C (de-rated operation above 45°C)
Noise Level	⩽75dB
Dimensions (WDH mm)	1000*1300*2500
Weight	~2.6 tons
Water Resistance Rating	Battery compartment: IP65, Electrical compartment: IP54
Allowed Relative Humidity	0-95% (non-condensing)
Maximum Altitude	⩽2000m (de-rating above 2000m)
Communication Interface	CAN，Ethernet
Communication Protocol	ModbusTCP/RTU
System Operation Mode	Peak shaving, demand control, reactive power adjustment, grid scheduling interface,Remote dispatch, local data storage, anti-backflow feature
Certification Standards	GB/T36276-2018；IEC62619；

COMMERCIAL & INDUSTRIAL ESS

Energy Cube Liquid-Cooling

372kWh | 418kWh

PRE-INSTALLED DELIVERY
FLEXIBLE CONFIGURATION



The liquid-cooled energy cube DC cabinet adopts a modular design approach, integrating the battery cells, BMS, power distribution system, thermal management system, and energy management system into a standardized cabinet. This design offers ultra-high energy density, paired with a liquid cooling system and fire suppression system, ensuring high safety, reliability, efficiency, and long cycle life. This industrial and commercial distributed energy storage solution provides greater flexibility compared to containerized energy storage systems, significantly reducing transportation and on-site installation and commissioning costs.

Ultimate Safety
Independent Liquid Cooling

Independent Liquid Cooling

High energy density design with an independent liquid cooling system, ensuring low-noise operation.

Safety & Reliability

Triple-layer protection design with a multi-dimensional warning system and PACK-level fire protection technology.

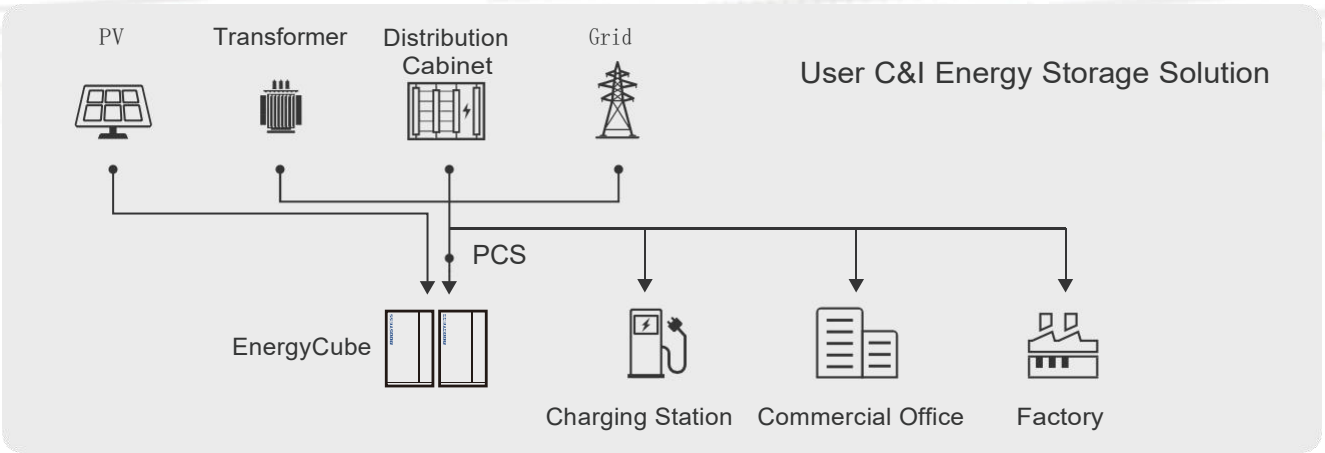
Extended Lifespan

Equipped with long-cycle, high-quality cells, featuring intelligent temperature control to keep the batteries in optimal condition.

Modular System

Flexible Deployment

Single-cluster cabinet design allows for flexible configuration based on capacity and space requirements, making it suitable for various outdoor applications.



Application Scenario

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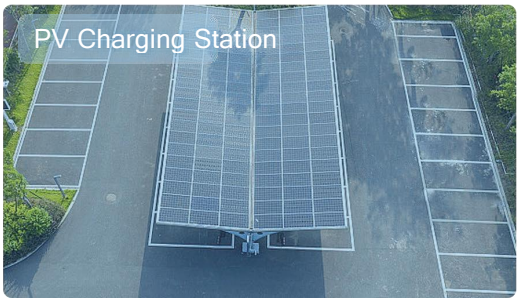
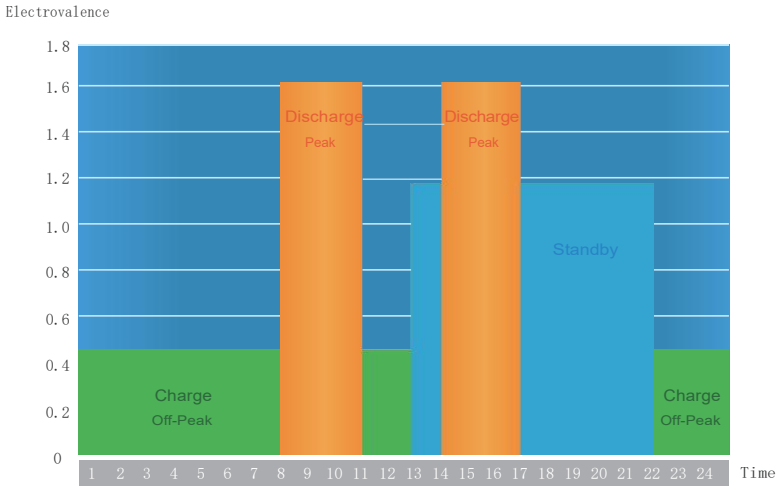


Energy Storage System Operation Mode



22:00-8:00

Charging during off-peak electricity price periods

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Discharging during peak electricity price periods

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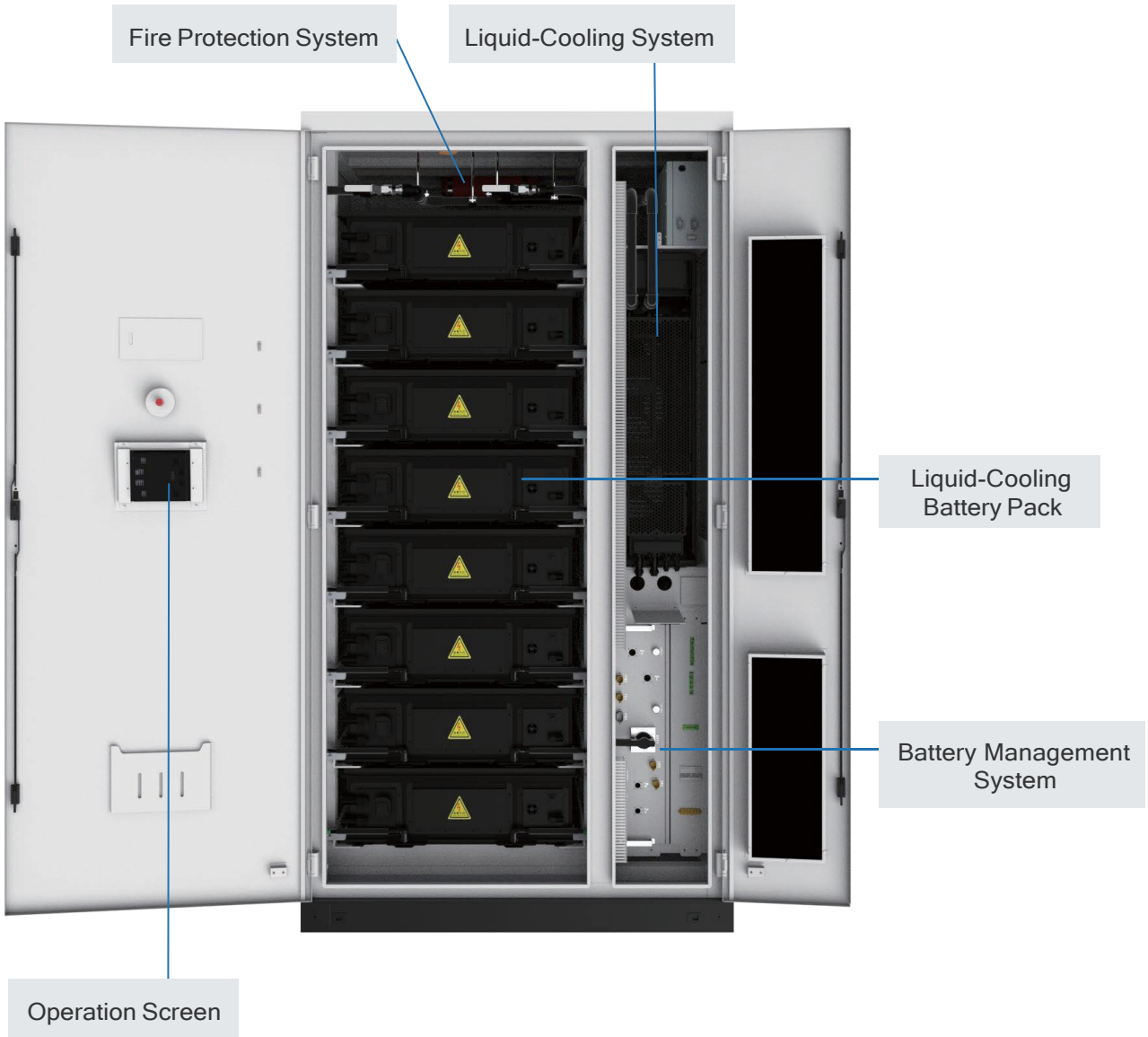
Product Appearance



Product Parameter

DC Side Parameters		
Battery Type	LFP	
Configuration	1P416S	
Rated Capacity	280Ah	314Ah
Rated Energy	372kWh	418kWh
Rated Voltage	1331.2V	
Rated Charge/Discharge C-rate	0.5P	
Operating Voltage Range	1040V～1497.6V	
Cooling Method	Liquid cooling	
Cycle Life	6000	
Fire Protection System	Perfluorohexanone	
Detector Type	Temperature, smoke, CO	
System Parameters		
Operating Environment	-15°C to 50°C (de-rated operation above 45°C)	
Dimensions (WDH mm)	1380*1400*2615	
Weight	~3.5tons	
Water Resistance Rating	IP54	
Allowed Relative Humidity	0-95% (non-condensing)	
Maximum Altitude	≤ 2000m (de-rating above 2000m)	
Certification Standards	GB/T34131-2017 GB/T36276-2018;IEC62619;	

Liquid-Cooling Commercial & Industrial ESS

125kW/261kWh

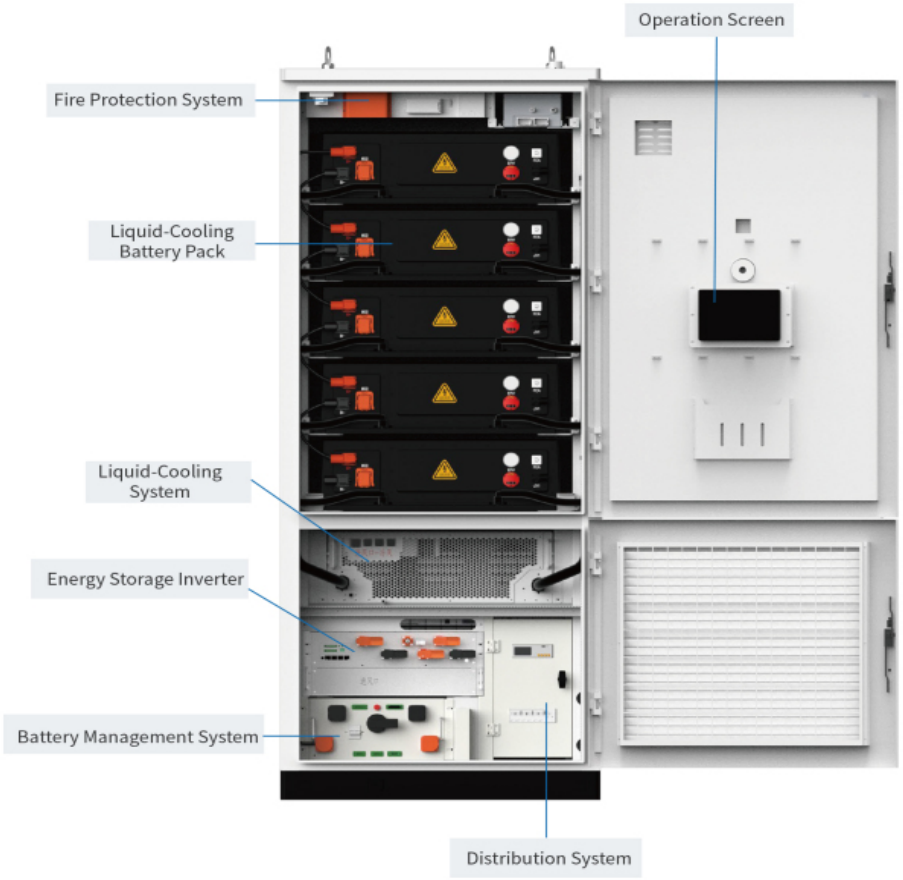
Independent Liquid Cooling

Safe & Reliable

Cloud-Edge Collaboration

Modular Design

125kWh|261kWh



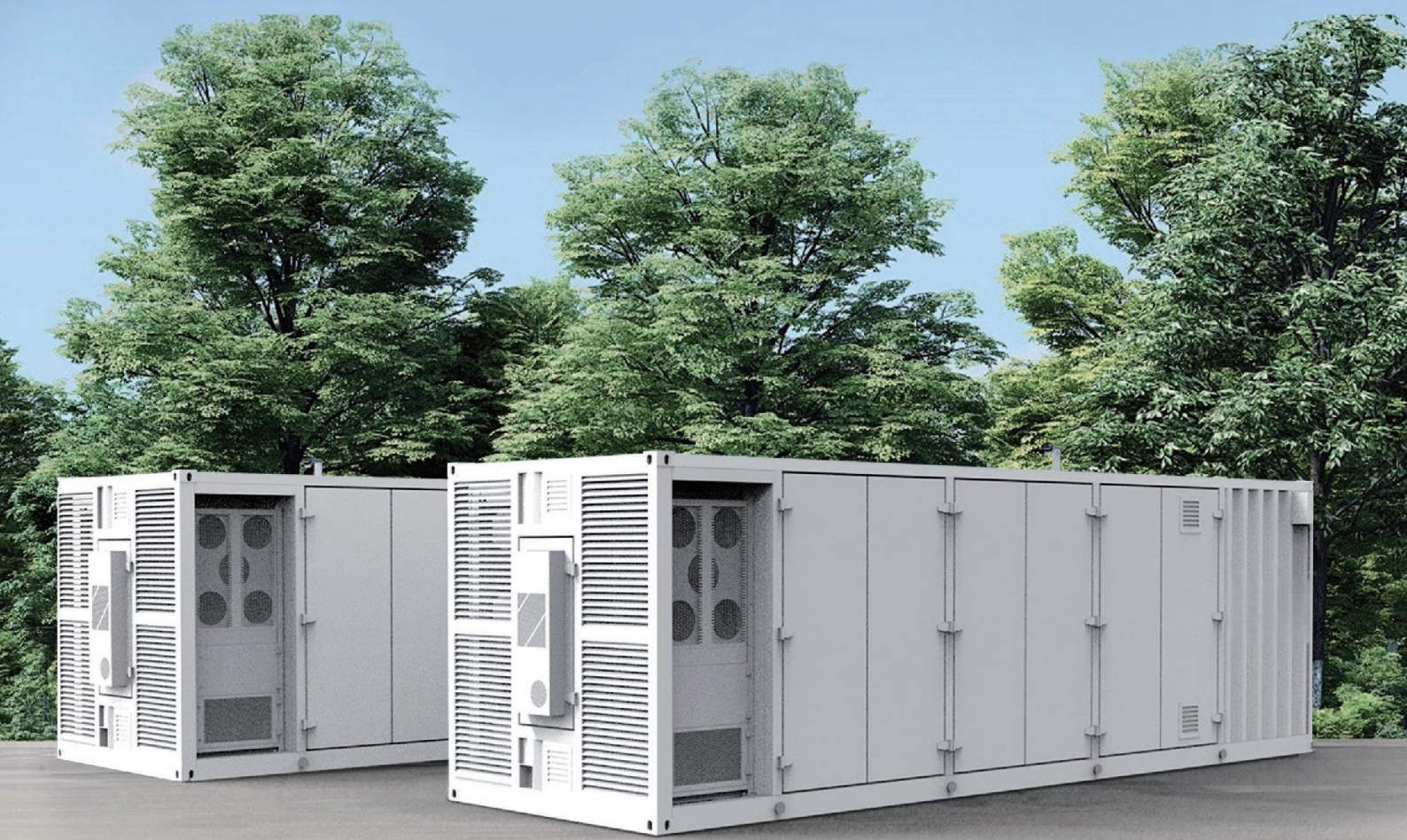
Caption

Model	Energy Cuve 100
DC Parameter	
Battery Type	LFP
Combination Mode	1P260S
Rated Capacity	314Ah
Rated Energy	261kWh
Rated Voltage	832V
Rated Power	125kW
Operating Voltage Range	650V ~ 949V
Charge/Discharge Current	100A/100A
Cooling Mode	Liquid Cooling
Cycle Number	8000
Fire Protection System	Perfluorohexanone + Aeroso+Water fire suppression
Detector Type	Temperature / Smoke Sensor / Water Leak
AC Parameter	
Rated Output Power	125kW
AC Overload Capability	137.5kW
Wiring Method	Three-phase, four-wire
Allowed Grid Voltage	380V/400V（-15% ~ + 15%）
Allowed Grid Frequency	50Hz/60Hz±2.5Hz
Total Harmonic Distortion (THD)	≤ 3% (at full load)
Power Factor	-0.99/-1~1
DC Component in Current	≤0.5%
Charge/Discharge Conversion Time	< 100ms
Maximum Conversion Efficiency	≥98%
System Parameter	
Operating Environment	-20℃ ~ 50℃（Power derating 45℃+）
Size (W*D*H mm)	1000*1300*2500
Weight	About 2.6T
Class Of Protection	IP54
Allowable Relative Humidity	0-95%
Allowable Altitude	≤2000m（Power derating 2000m + ）
Certification Standard	IEC62619、EN62477-1、IEC 63056

WELTRUS

COMMERCIAL & INDUSTRIAL ESS

20ft



Liquid Cooling Integration
Provide The Ultimate In Safe Energy Management

The liquid-cooled containerized energy storage system, independently developed and designed by WELTRUS, offers functionalities such as smoothing grid output, peak shaving, frequency regulation, and load shifting. The entire system can also connect to WELTRUS's self-developed energy storage cloud platform, which enhances revenue and optimizes operations through its digital operation and energy management systems.

3.35MWh Storage Container

Ultimate Safety

Featuring a liquid cooling system with dynamic temperature regulation and an independent battery compartment for enhanced protection.

Compact Design

Integrated design increases system capacity while significantly reducing the footprint.

Pre-installed Delivery

One-stop pre-installed product delivery shortens installation and commissioning time, reducing costs.

Non-walk-in Design

Maximizes space usage, offers strong environmental adaptability, and simplifies installation and maintenance.

Intelligent Operations & Maintenance

Cloud-based remote monitoring and intelligent management reduce losses and improve system efficiency.

Customizable Solutions

Flexible system capacity customization tailored to different scenarios and energy storage needs.

High Weather Resistance and Protection
Adaptable to various environmental conditions

HangZhou

PROJECT LOCATIONS Chun'an County Liquid Cooling Energy Storage Station

CONSTRUCTION SCALE 108MWh

PROJECT FUNCTION Peak Shaving, Frequency Regulation Power Dispatch

HengZhou

PROJECT LOCATIONS Guangxi Longyuan Jasmine Liquid Cooling Energy Storage Station

CONSTRUCTION SCALE 100MWh

PROJECT FUNCTION Peak Shaving, Frequency Regulation Power Dispatch

Bengbu

PROJECT LOCATIONS Commercial and Industrial Liquid Cooling Energy Storage Project

CONSTRUCTION SCALE 4.47MWh

PROJECT FUNCTION Peak Shaving, Frequency Regulation Power Dispatch

Product Parameter

Specification	Parameter	
Container	20ft	20ft
Temperature Control Mode	Perfluorohexanone + Water Fire Protection	Perfluorohexanone + Water Fire Protection
Rated Battery Capacity	LFP 280Ah	LFP 314Ah
Rated DC Voltage	1331.2V	1331.2V
Maximum Charge & Discharge Ratio	0.5P	0.5P
Rated DC Capacity	3.35MWh	5MWh
DC Charging & Discharging Efficiency	93%-95%	93%-95%
Battery Type	LFP	LFP
Fire Protection System	Liquid Cooling	Liquid Cooling
Certification Standard	UL9540/UL9540A/CE/IEC/KC/KBIA	UL9540/UL9540A/CE/IEC/KC/KBIA
Weight	~35tons	~38 tons
Dimensions (W * D * H)	6058*2500*2896mm	6250*2550*3100mm
Case Protection Class	IP54	IP54
Operating Temperature Range	-20-55°C	-20-55°C
Communication Interface	CAN,RS485,Ethernet	CAN,RS485,Ethernet
Communication Protocol	CAN ,Modbus RTU ,Modus TCP/IP	CAN ,Modbus RTU ,Modus TCP/IP

Smart Energy Storage
Creating the Future

Hangzhou Weltrus New Energy Technology Co.,Ltd.
Add ：Block D,Ocean International Center, 333 Yuanjian Street,Hangzhou,Zhejiang,China.
Tel ： +86 571 8838 9554
E-mail ：sales@weltrus.com
Website ：www.weltrus.com