Industrial and Commercial Energy Storage System

Standardized Design

Reduces design, integration, transportation, and installation costs

Liquid Cooling

Efficient heat dissipation, increased efficiency, ensuring optimal performance, and extending lifespan

Ultimate Safety

Independently designed triple fire protection measures at the PACK and cabinet levels; Multi-level automatic disconnection design for PACK and battery clusters; Multiple standard certifications: Products meet UL and CE standard requirements.

Nominal Power	233kWh
Cooling Method	Liquid Cooling
Cycle Life	≥6000
Level of Protection	IP54
Dimension [w*h*d]	1406 * 2300 * 1350 mm
System Efficiency	>87%
Rated Power	105kW
Rated AC Voltage	AC400V

Mercury Series balance power demand and supply, provides efficient load management and emergency backup power, and is suitable for a variety of application scenarios, such as peak shaving and valley filling, frequency and capacity adjustment, and power grid stabilization.

Cost Reduction and Efficiency , Low Carbon Economy

Structural design of energy storage liquid-cooled all-in-one

Scenes

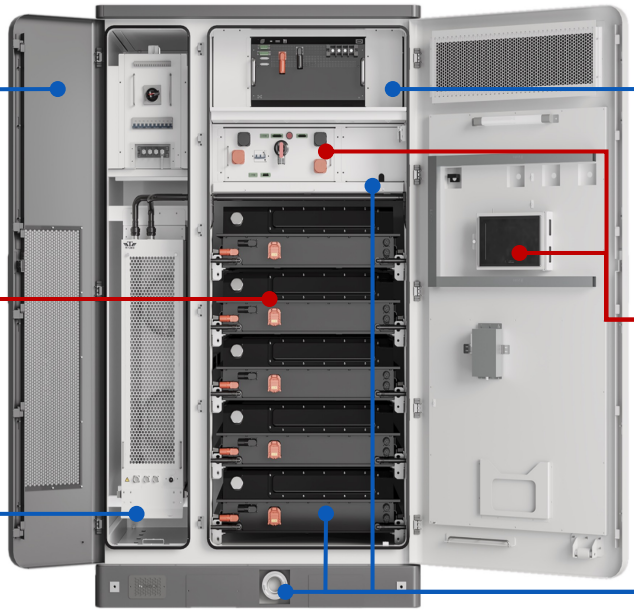
- Supporting small and medium-sized businesses
- Supporting micro-grid and off-grid use
- upporting VPP virtual power plant

Capacity

- Using 280Ah large-capacity lithium iron phosphate battery cells for energy storage
- Supporting 10+ units parallel operation

Liquid Cooling Machine

- The temperature difference within the packet is < 3℃, and the temperature difference within the cluster is < 5℃。
- Intelligent temperature control management system and high efficiency



PCS

- 100kW, maximum output 110kW
- Supporting SVG
- Three-phase four-wire system

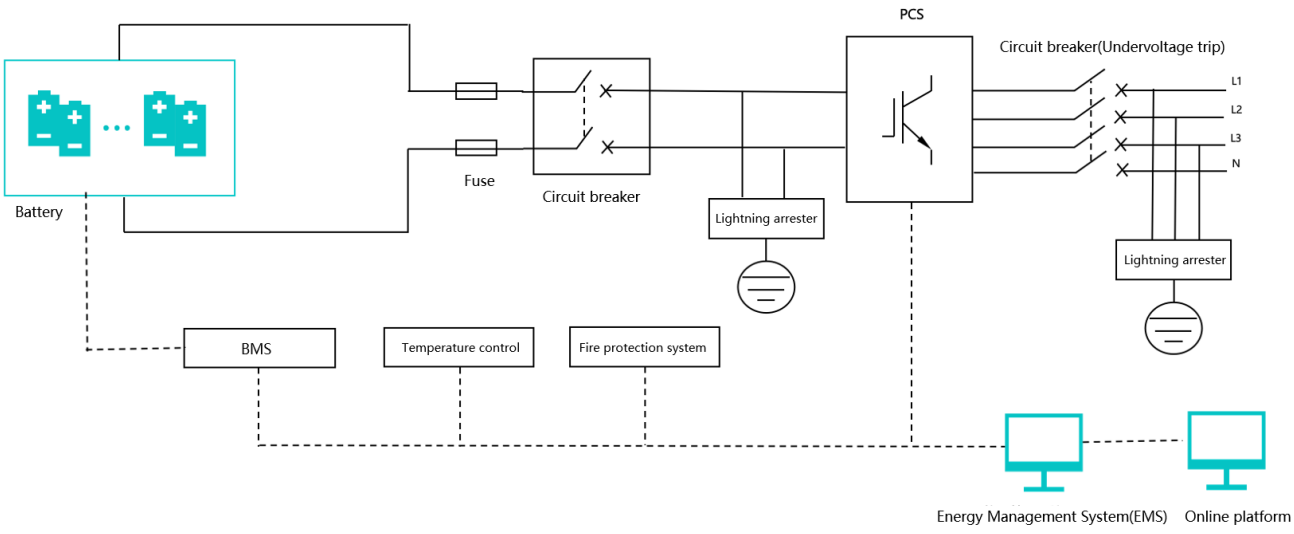
EMS&BMS

- Self-developed EMS&BMS
- Intelligent control strategy, suitable for various scenarios
- Battery system real-time monitoring
- With cloud platform

Fire Fighting System

- Level III fire protection design
- Multi -sensor monitor in real time, early warning

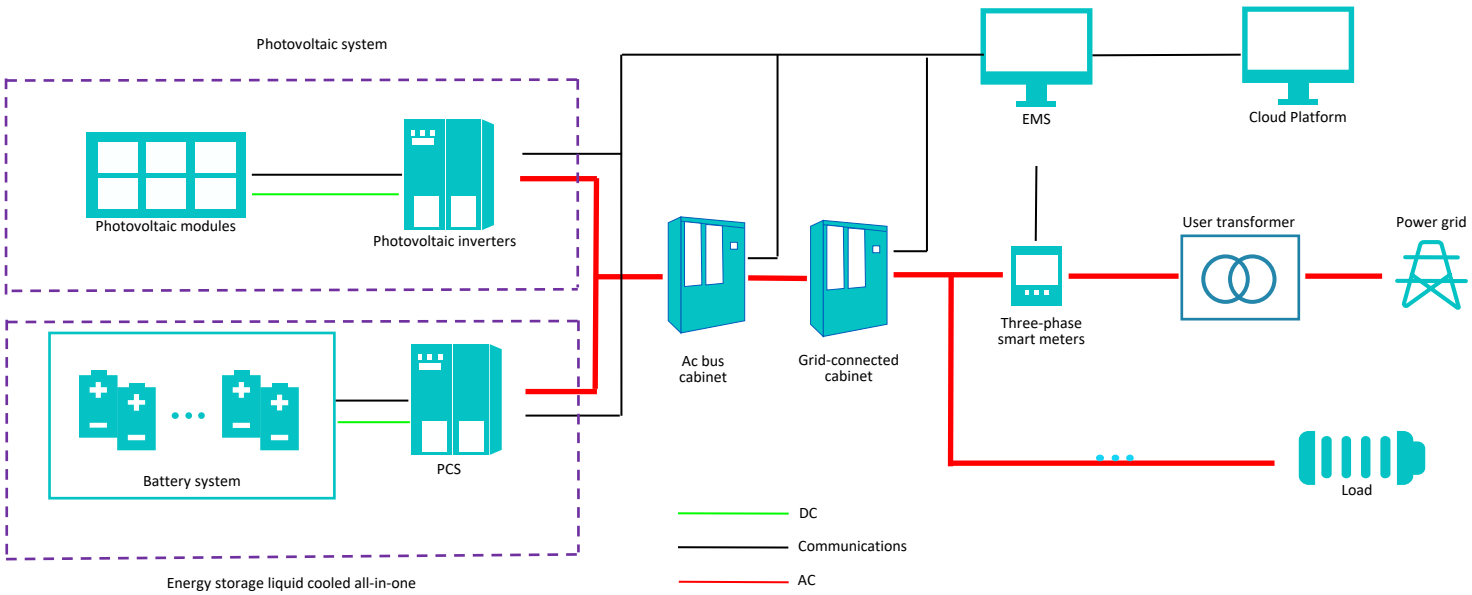
MODEL	Mercury 233
Model Specifications	105kW/233kWh
Nominal power	233kWh
Cooling method	Liquid cooling
Operating temperature range	-20 ℃~50℃
Storage temperature range	-20 ℃~50℃
Operating humidity range	5%~95%, RH
Number of Cycles	P 6000
Fire protection measures	PACK grade (aerosol) + Cluster grade (aerosol + water spray)
IP level	IP54
Dimensions (width * depth * height)	1400*1380*2385 (mm)
Weight	≤2800kg
Maximum operating altitude	2,000 m
Cell specifications	280Ah
Battery pack configuration	1P52S
Battery system configuration	1P260S
Rated voltage	832VDC
Voltage range	728 ~ 936VDC
Charge and discharge ratio	0.5 C
Rated current	140A
Rated power	105kW
AC access method	Three-phase four-wire
Maximum current	167A
Rated gird voltage	AC400V
Communication port	CAN/RS485/Ethernet
Communication protocol	Modbus TCP
Overload capacity	1.1 Times long term
Meeting standards	EC62619 IEC62477 IEC63056 IEC61000



It can better balance power demand and supply, providing efficient load management and the backup power. Suitable for small and medium-sized industrial and commercial, used to peak cutting and valley filling, the backup power and other application scenarios.

Scenario 1

Below 500kW (non-isolated type)



Application Scenarios

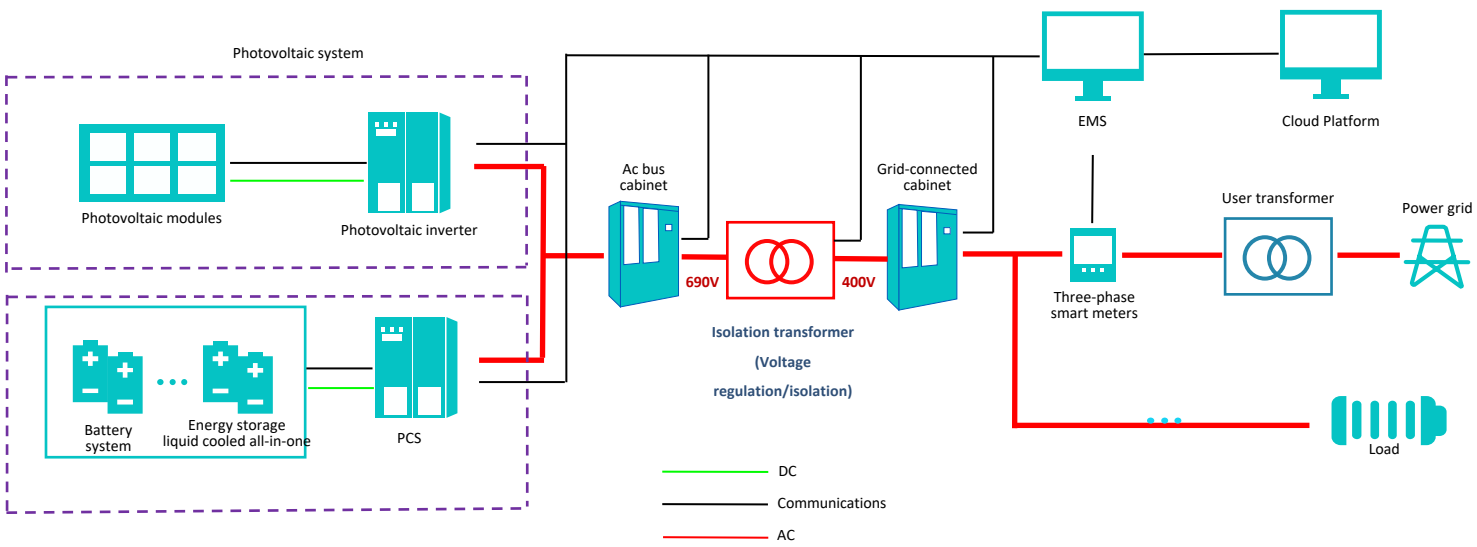
- Distributed energy storage in industrial parks
- Optical storage and charging stations
- Small and medium-sized industrial and commercial energy storage
- Micro-grid systems

Product Features

- Low voltage 400V access, access flexibly
- Modular energy storage system, flexibly adapt different application scenarios
- Integrated energy management system to support multi-mode operation
- Cloud platform blessing, mobile application remote monitoring

Scenario 2

Above 500kW (isolated type)



Application Scenarios

- Distributed energy storage in industrial parks
- Optical storage and charging stations
- Small and medium-sized industrial and commercial energy storage
- Micro-grid systems

Product Features

- Low voltage 400V access, access flexibly
- 1500V energy storage system, reduce Wh cost
- High energy density, small footprint
- Integrated energy management system, support multi-mode operation
- Cloud platform blessing, mobile application remote monitoring

Generation Side Energy Storage Solutions

Standardized Design

Prefabricated container-type installation structure
Flexible, reliable and scalable

Triple Fire Protection

Layer by layer protection from pack, cluster to entire cabinet.
Intelligent liquid cooling temperature control system

High energy density

Superior rate charge and discharge performance
Large storage capacity
High conversion efficiency

China

Nominal Energy	5.00MWh
Cooling Method	Liquid Cooling
Cycle Life	≥6000
Level of Protection	IP54
Dimension [w*h*d]	6450 * 2896 * 2550mm
Rated Voltage	1331.2VDC
Total Weight	About 41T
Operating Temperature	10°C~45°C
Operating Humidity	5%~95%

Neptune 5000

Neptune 3380

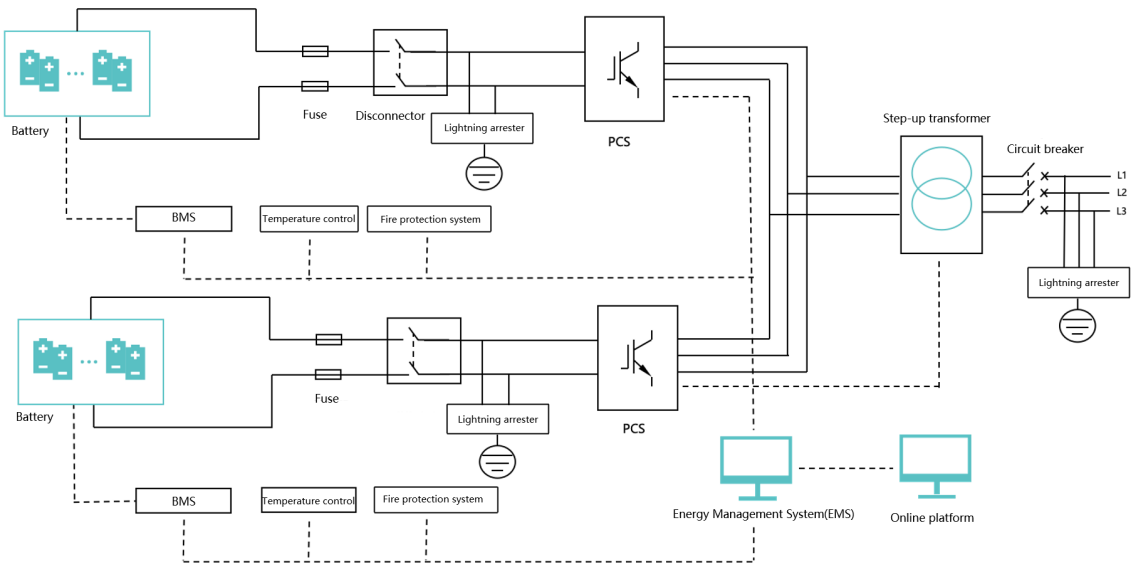
Europe · US

Nominal Energy	3.38MWh
Cooling Method	Liquid Cooling
Cycle Life	≥6000
Level of Protection	IP54
Dimension [w*h*d]	6058 * 2896 * 2438mm
Rated Voltage	1267VDC
Total Weight	About 37T
Operating Temperature	10°C~45°C
Operating Humidity	5%~95%

Storage of excess renewable energy capacity to balance grid fluctuations,
provide a stable supply of renewable energy,
and respond to peaks in electricity demand and emergencies.

Help the energy transition. Achieve the carbon peaking and carbon neutrality goals.

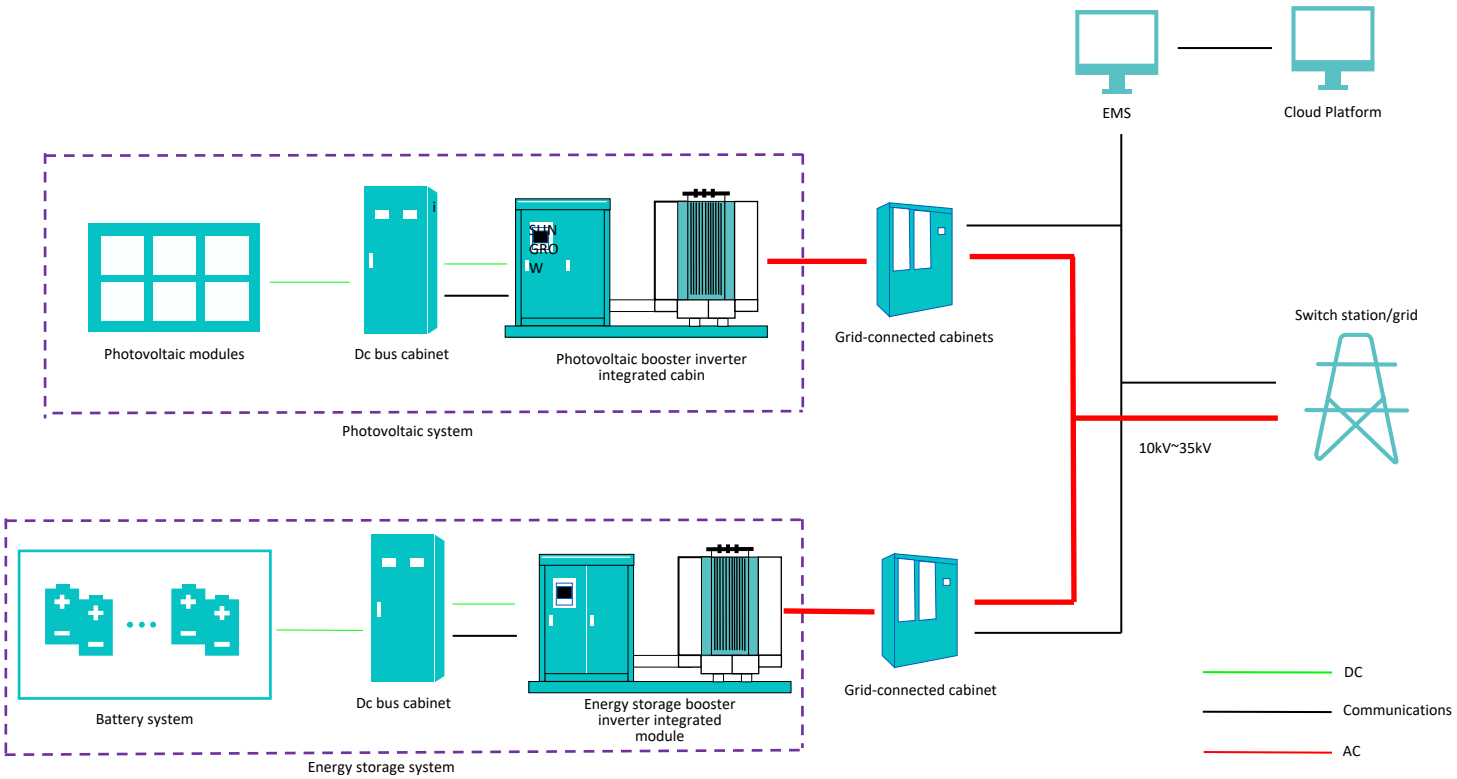
Product basic parameters			
System parameters	Model Specifications	3.34MWh	5MWh
	Cooling method	Liquid cooling	
	Number of Cycles	P 6000	
	Fire protection measures	PACK grade (aerosol / perfluorophenone) + Cluster grade (aerosol / perfluorophenone + water spray)	
	IP level	IP54	
	Dimensions (width * depth * height)	6058*2438*2896mm	6458*2550*2896mm
DC side parameters	Cell specifications	280Ah	314Ah
	Battery pack configuration	1P52S	
	Battery system configuration	9P416S	12P416S
	Rated voltage	1331.2 VDC	
	Voltage range	1164.8 to 1497.6VDC	
	Charge and discharge ratio	0.5 C	0.5 C
	Rated current	1260A	1570A



better balances power demand with supply, providing efficient load management and emergency backup power; It is suitable for large-scale industrial and commercial peak cutting and valley filling, as well as large storage frequency and capacity modulation at the source network side, power grid stability and other application scenarios.

Scenario 1

Large industrial and commercial



Application Scenarios

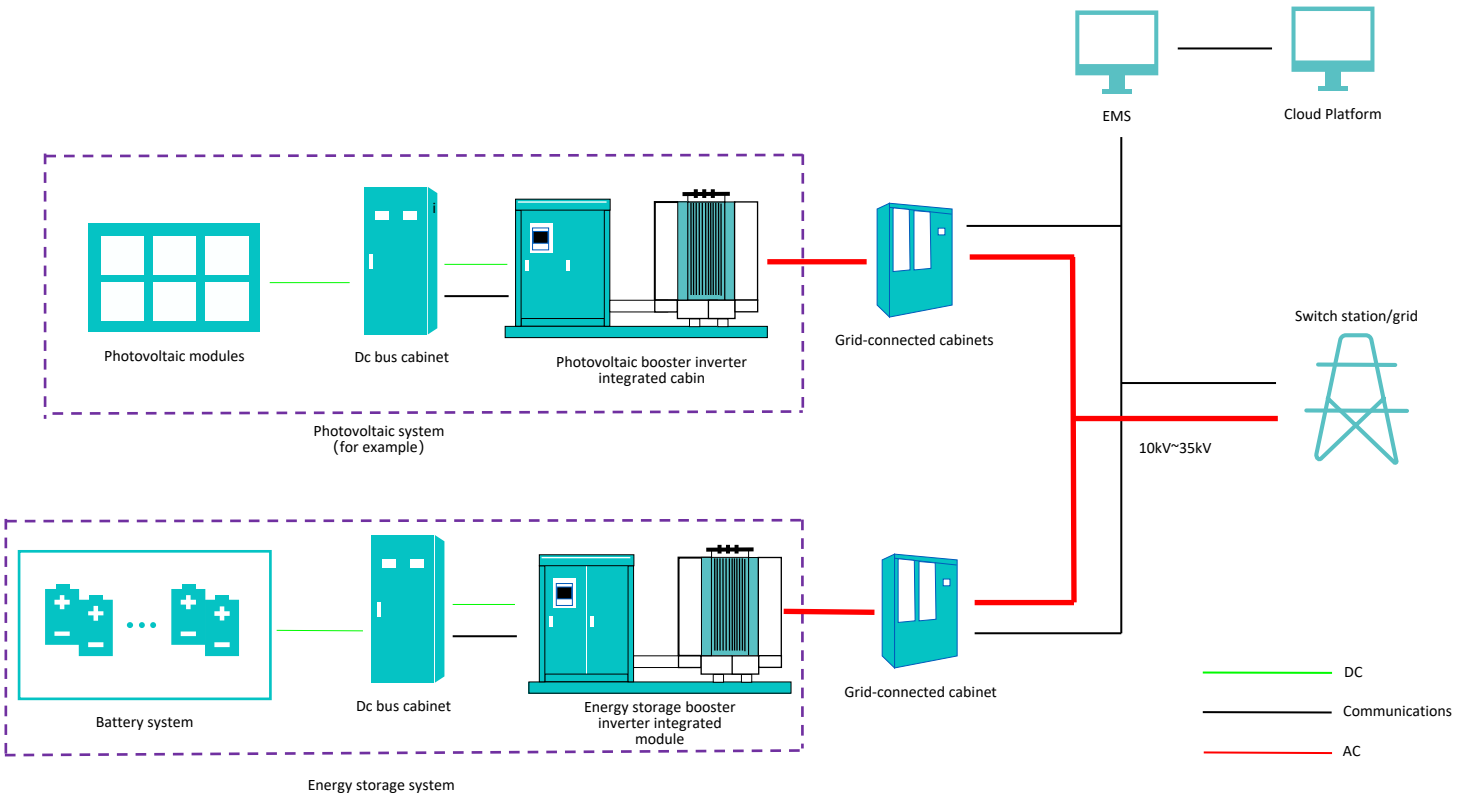
- Large energy storage on user side
- Large microgrids
- Shared energy storage

Product Features

- Higher integration, multiple capacity energy storage system optional
- 1500V energy storage system, reduce Wh cost
- Modular high energy density design, flexible configuration
- Prefabricated compartment installation, reduce installation costs and commissioning time

Scenario 2

Source Network Side



Application Scenarios

- Source side large solar-wind power station storage
- Grid side independent energy storage power station
- Thermal power FM

Product Features

- Higher integration, multiple capacity energy storage system optional
- 1500V energy storage system, reduce Wh cost
- Modular high energy density design, flexible configuration
- Prefabricated compartment installation, reduce installation costs and commissioning time

IoT

Data Security and Reliability

AI Technical Centre Platform

Edge-Device Integration

Data Mining

Data-driven

Multidimensional Spatio-Temporal Data

Digital Twin

Carbon Trading

Intelligent Analytics

Whole Lifecycle Management

Operational Status of the Energy Storage System

Dynamic Optimization of Setups

Safe and Economic Operating Models

Energy Conversion/Distribution/Transaction

Independent R&D

Develop with agility, offering protocols and interfaces that boast extensive compatibility and universality.

Strong Platform Compatibility

Enable access through various means such as browsers, mini-programs, and mobile applications.

Real-time Energy Data Monitoring

Support continuous real-time monitoring, in-depth analysis, and remote control of energy data.

Microservices Architecture

Adopt a microservices architecture that granulates and modularizes application modules to achieve rapid iteration, seamless upgrades, and flexible expansion.