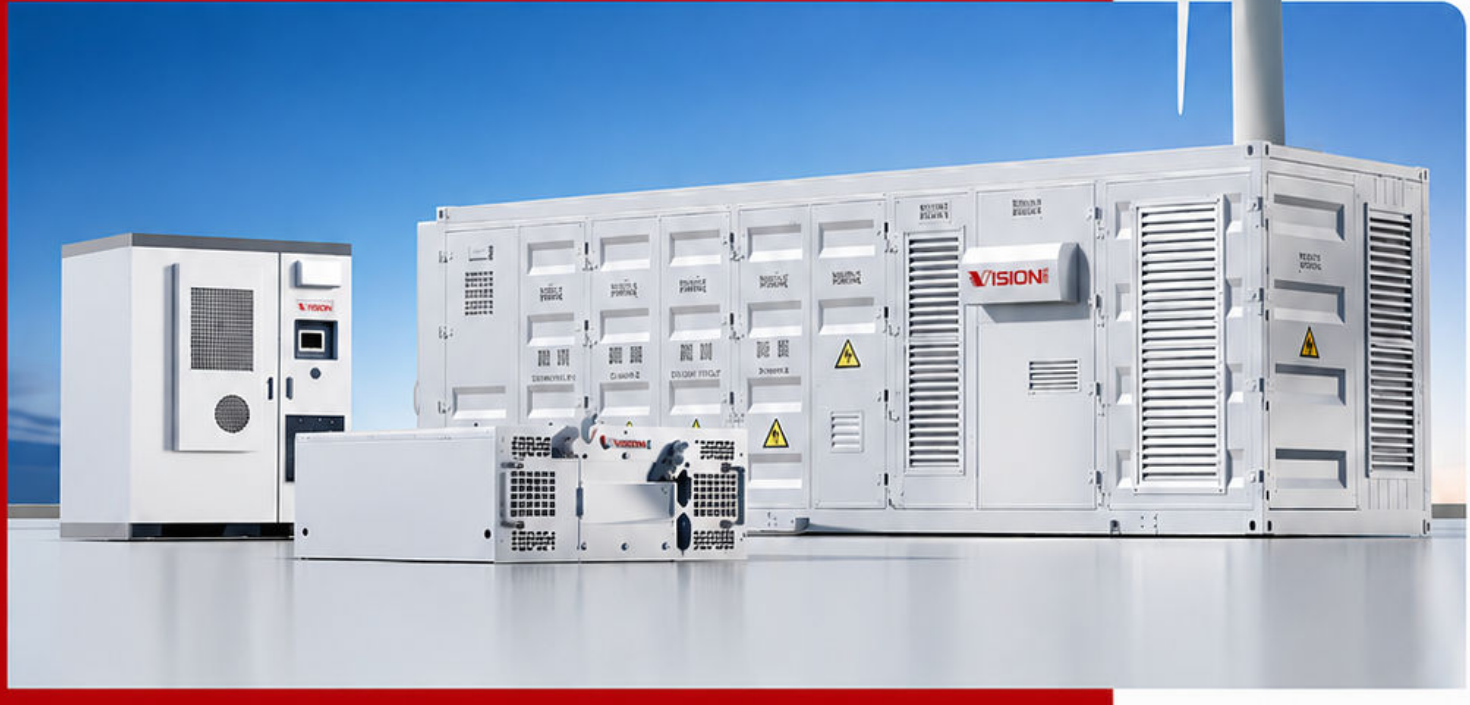
VisionCore Nexus
ENERGY PARTNER

Powered by VISION

Stable as a Rock
Powering the Future

Vision CBES Energy Storage
Product Brochure



Qualified Supplier Product Portfolio

Why This Solution

VisionCore Nexus, as a qualified supplier powered by Vision Group, delivers high-performance energy storage solutions backed by industry-leading expertise, advanced technology, and a commitment to long-term value and reliability.

Proven Reliability

- Backed by Vision Group's 30+ years of experience in power electronics and energy storage.
- Engineered with rigorous testing and quality assurance to ensure long-term stable operation in demanding environments.

Advanced Technology

- Integrated liquid cooling and intelligent BMS for enhanced safety, efficiency, and system performance.
- Modular and scalable design to support a wide range of applications and future expansion.

End-to-End Support

- From solution design and engineering to installation guidance and after-sales service, we are with you every step of the way.
- Global service network and local support for fast response and peace of mind.

Sustainable Value

- High efficiency and long lifecycle reduce total cost of ownership.
- Enabling clean energy transition and creating sustainable value for our partners and communities.

CBES-0.5C rate liquid cooled ESS

Highly Integrated, Efficient, and Convenient

The 0.5C liquid-cooled energy storage battery cabin features an integrated, modular, and standardized design, offering ultra-high volumetric energy density to effectively save station footprint. It is widely applicable to shared energy storage stations, standalone energy storage plants, and large-scale user-side energy storage scenarios.

Safe and Reliable

- The battery cabin system is designed with a lifespan of ≥25 years, ensuring reliable system operation.
- The fire protection system features multi-level linkage, including combustible/volatile gas monitoring, exhaust ventilation, and explosion venting design for efficient fire extinguishing and prevention of re-ignition.
- The fire protection system includes three levels of linkage: PACK-level, cluster-level, and cabin-level fire protection.

Intelligent and Efficient

- New, high-efficiency, and reliable liquid cooled design that integrates the thermal management system with the BMS, reducing auxiliary energy consumption by 20%.
- Real-time, precise temperature control, with a temperature difference of ≤2.5°C within the PACK, significantly improving cell consistency and extending system lifespan.
- Integrated energy storage system that supports back-to-back container stacking, saving station footprint.

Highly Integrated

- The battery cabin adopts a prefabricated design, with integration completed in the factory, significantly reducing on-site construction time.
- Ultra-high volumetric energy density.

Convenient Operation and Maintenance

- OTA remote upgrades + APP-based operation and maintenance + cloud-edge collaboration.
- Full lifecycle system fault diagnosis, health assessment, and early warning.
- Modular design, enabling convenient online replacement and maintenance.

New Energy Utilization

Shared energy storage stations

Standalone energy storage plants

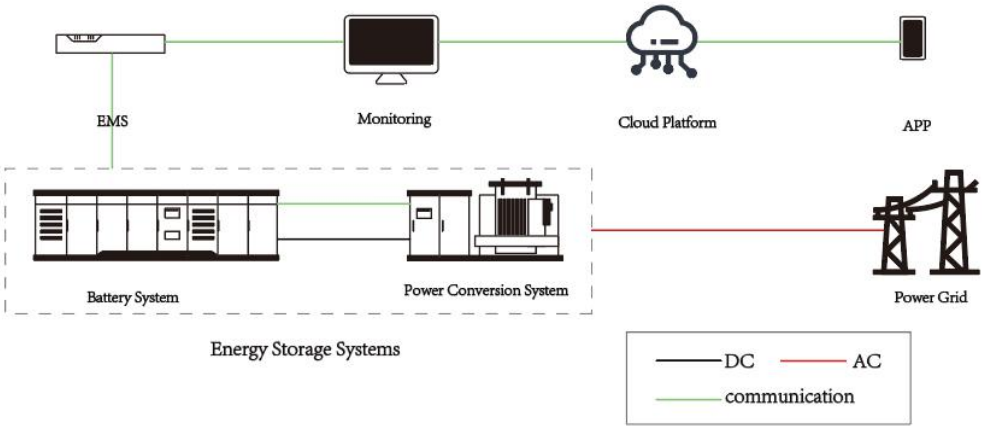
Large-scale user-side energy storage

*This product diagram is for reference only, the delivery in kind shall prevail!

CBES-0.5C Liquid cooled ESS

Large-Scale Energy Storage System Solution

Product Model	CBES-6.48MWh
DC Side	
Cell Type	LFP 3.2V/348Ah
Pack String	1P104S
Configuration of System	14×1P416S
Battery Capacity（BOL）	6485.60kWh
Rated Charge/Discharge Rate	0.5P
Nominal Voltage	1331.2V
Voltage Range	1164.8V-1497.6V
General Parameter	
Dimensions(W×D×H)	7260×2438×3100mm
Weight	≈55t
IP grade	IP55
Operating Temperature Range	-30℃~+55℃
Ralative Humidity	0-95%（no condensation）
Maximum working altitude	3000m（＞3000m，De-rated usage required）
Cooling type	Liquid cooling
Noise	≤85dB
Fire Suppression System（Optional）	Aerosol/ Heptafluoropropane/ perfluorohexanone
Auxiliary power supply	AC380V/50Hz
Communication Interface	Ethernet、CAN、RS485
Communication Protocol	Modbus/IEC61850
Areas Applied	Europe/China



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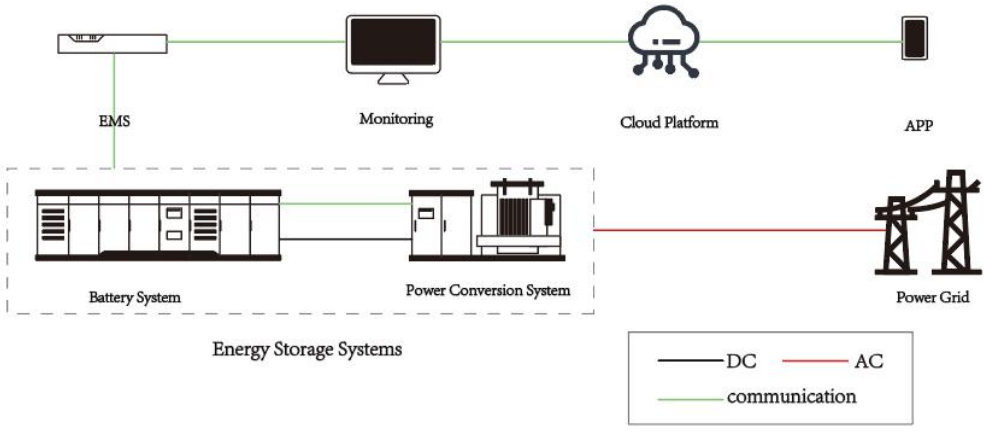
CBES-0.5C Liquid cooled ESS

Large-Scale Energy Storage System Solution

Product Model	CBES-5MWh
DC Side	
Cell Type	LFP 3.2V/314Ah
Pack String	1P104S
Configuration of System	12×1P416S
Battery Capacity（BOL）	5015.96kWh
Rated Charge/Discharge Rate	0.5P
Nominal Voltage	1331.2V
Voltage Range	1164.8V-1497.6V
General Parameter	
Dimensions(W×D×H)	6058×2438×2896mm
Weight	45t
IP grade	IP55
Operating Temperature Range	-30℃~+55℃
Ralative Humidity	0-95%（no condensation）
Maximum working altitude	3000m（＞3000m，De-rated usage required）
Cooling type	Liquid cooling
Noise	≤85dB
Fire Suppression System（Optional）	Aerosol/ Heptafluoropropane/ perfluorohexanone
Auxiliary power supply	AC380V/50Hz
Communication Interface	Ethernet、CAN、RS485
Communication Protocol	Modbus/IEC61850
Areas Applied	Europe/China



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CBES-0.5C rate Liquid-Cooled Outdoor Cabinet

Highly Integrated, Efficient, and Convenient

The liquid-cooled outdoor cabinet features a modular integrated design, offering flexibility to adapt to various application scenarios. It meets the needs of peak shaving and valley filling, dynamic capacity expansion, demand-side response, backup power, and microgrid applications.

Safe and Reliable

- Multi-level fire protection system linkage, including combustible/volatile gas monitoring, exhaust ventilation, and explosion venting design for efficient fire extinguishing and re-ignition prevention.
- PACK-level and cabin-level fire protection.

Intelligent and Efficient

- High-efficiency and reliable new liquid cooled design, integrating the thermal management system with the BMS to reduce auxiliary energy consumption by 20%.
- Real-time precise temperature control, maintaining a temperature difference of ≤2.5℃ within the PACK, significantly improving cell consistency and extending system lifespan.

Highly Integrated

- Modular integrated design
- Installation-free, "plug-and-play" functionality
- Flexible adaptation to various scenarios, supporting parallel operation of up to 10 units

Convenient Operation and Maintenance

- OTA Remote Upgrades + APP-Based Operation and Maintenance + Cloud-Edge Collaboration
- Full lifecycle system fault diagnosis, health assessment, and early warning
- Modular design for convenient online replacement and maintenance

New Energy Utilization

Peak Shaving and Valley Filling

Standalone Energy Storage Stations

Large-Scale User-Side Energy Storage

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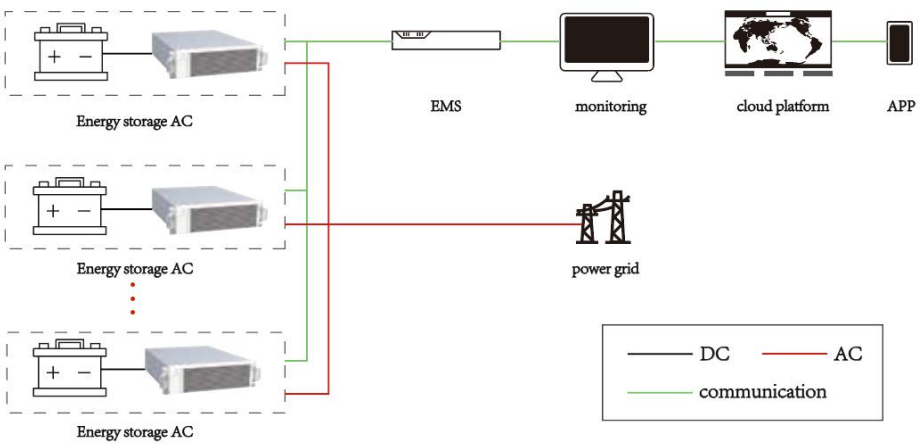
CBES-0.5C Liquid-Cooled Outdoor Cabinet

Large-Scale Energy Storage System Solution

Product Model	CBES-125kW/261kWh
DC Side	
Cell Type	LFP 3.2V/314Ah
Pack String	1×1P260S
Rated Power	261kWh
Grid-tied AC output	
Rated Charging/Discharging Power	125kW
Rated Input Voltage	AC400V
Rated Frequency	50Hz/60 Hz
Off-grid AC output	
Rated Output Power	125kW
Rated Voltage output	AC400V
Rated frequency	50Hz/60Hz
General Parameter	
Dimensions(W×D×H)	1500*1400*2225mm
Weight	2.8t
Operating Temperature Range	-30℃~+55℃
Relative humidity	0-95%（no condensation）
Cooling type	Liquid cooling
Noise	≤75dB
Fire Suppression System	Aerosol/ perfluorohexanone
Communication Interface	Ethernet、CAN、RS485
Communication Protocol	Modbus TCP/IP
Code & Compliance	GB/T36276、GB/T 34120、GB/T 34131、IEC62619、IEC62477、IEC61000



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CBES-Air-cooled optical storage and off-grid integrated cabinet

Highly Integrated, Efficient, and Convenient

The air-cooled solar-storage integrated cabinet adopts a DC-coupled design, enabling multiple PV inputs and supporting various solar-storage operation strategies. Its modular integrated design allows for parallel operation of multiple cabinets. With seamless on/off-grid switching, it flexibly adapts to diverse application scenarios, meeting requirements for dynamic capacity expansion, peak shaving and valley filling, demand-side response, backup power, and microgrid applications.

Safe and Stable

- Multi-level fire protection system linkage for efficient fire extinguishing and re-ignition prevention.
- Supports integration with BMS, EMS, and fire protection systems

Intelligent and Efficient

- Integrated on/off-grid design
- Supports various solar-storage operation scenarios, enabling on-demand use
- DC-coupled solar-storage system with multiple PV input capability

Highly Integrated

- Modular integrated design, offering flexibility to adapt to various scenarios and supporting flexible parallel operation.
- Supports seamless on/off-grid switching with a transfer time as fast as 20ms, enhancing power supply reliability.
- Installation-free, "plug-and-play" functionality.

Convenient Operation and Maintenance

- OTA Remote Upgrades + APP-Based Operation and Maintenance + Cloud-Edge Collaboration
- Full lifecycle system fault diagnosis, health assessment, and early warning
- Modular design for convenient online replacement and maintenance

New Energy Utilization

Dynamic Capacity Expansion

Demand-side response

Backup Power Supply

MicroGrid

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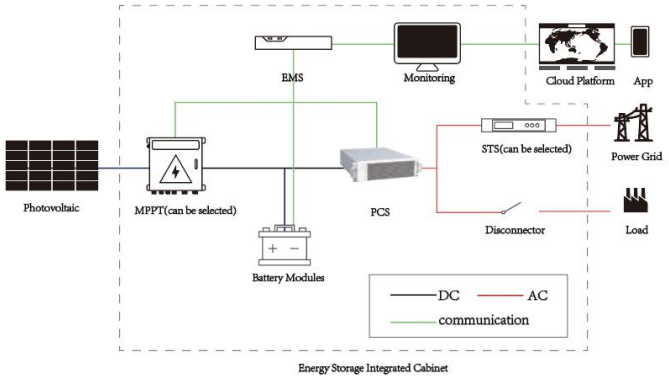
CBES-Air-cooled optical storage and off-grid integrated cabinet

Distributed Energy Storage System Solution

Product Model	CBES-50kW/229kWh	CBES-105kW/229kWh	CBES-50kW/215kWh	CBES-105kW/215kWh
DC Side				
Cell Type	LFP 3.2V/280Ah			
Pack String	1×1P256S		1×1P240S	
Rated Power	229kWh		215kWh	
Grid-tied AC Side				
Rated Charge/Discharge Rate	50kW	105kW	50kW	105kW
Rated Input Voltage	AC400V			
Rated Frequency	50Hz/60 Hz			
Off-grid AC Side				
Rated output power	50kW	105kW	50kW	105kW
Rated output Voltage	AC400V			
Rated Frequency	50Hz/60Hz			
General Parameter				
Dimensions(W×D×H)	1700×1260×2300mm			
Weight	2.6t		2.5t	
Operating Temperature Range	-30℃~+55℃			
Relative Humidity	0-95%（no condensation）			
Cooling Type	Air-Cooling			
Noise	≤75dB			
Fire Suppression System	Aerosol			
Communication Interface	Ethernet			
Communication Protocol	Modbus TCP/IP			
Code & Compliance	GB/T36276、GB/T 34120、GB/T 34131、IEC62619、IEC62477、IEC61000			
PV Parameter（Optional）				
Max Input Power	50kW	50kW/50kW*2	50kW	50kW/50kW*2
MPPT Voltage Range	0-670V			
Number of Independent MPPT Inputs	1			
Number of PV strings	1	1/2	1	1/2
Static Transfer Switch（optional）				
Rated Power	100kW	200kW	100kW	200kW
Time of Switch	≤20ms			



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CBES-Commercial and Industrial Containerized ESS

Highly Integrated, Efficient, and Convenient

The commercial and industrial containerized energy storage system features an integrated, standardized modular design, supporting up to serveral units in parallel. It meets the needs of peak shaving, dynamic capacity expansion, demand-side response, backup power, and microgrid applications. The system can be easily integrated with solar PV and diesel generation systems, making it adaptable to various application scenarios.

Safe and Stable

- Supports 100% Depth of Discharge (DOD) with a standard operating lifespan of 15 years.
- Dual fire protection system, including combustible gas detection, exhaust ventilation, and explosion venting design for efficient fire extinguishing and prevention of re-ignition.

Solar-Storage Integrated System

- Supports various solar-storage operation scenarios, enabling on-demand use.
- DC-coupled solar-storage system with the capability to connect multiple PV inputs.

Highly Integrated

- Integrated energy storage system in a standard 20-foot container, supporting parallel operation of multiple units.
- Standard modular design, integrating 400V/690V AC output, and supporting PV integration.
- The system integrates photovoltaic, battery, grid, diesel generation, and load interfaces.

Convenient Maintenance and Operation

- Integrated energy storage system in a standard 20-foot container, supporting parallel operation of multiple units.
- Standard modular design, integrating 400V/690V AC output, and supporting PV integration.
- The system integrates photovoltaic, battery, grid, diesel generation, and load interfaces.

Peak Shaving and Valley Filling

Dynamic Capacity Expansion

Demand-side response

Backup Power Supply

Microgrid

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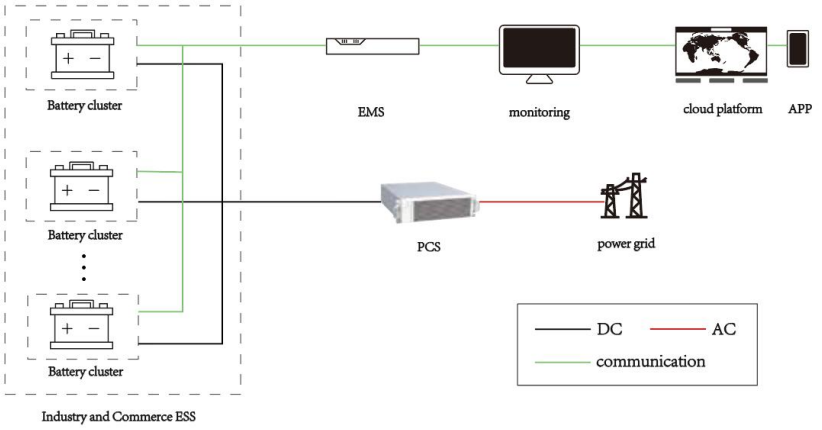
CBES-Commercial and Industrial Containerized ESS

C&I Energy Storage System Solution

Product Model	CBES-500kW/1MWh
DC Side	
Cell Type	LFP 3.2V/280Ah
Configuration of System	5x1P240S
Rated Power	1075.2kWh
Rated Charge/Discharge Rate	0.5P
Nominal Voltage	768V
Voltage range	672-864V
AC Side	
Rated Charging/Discharging Power	500kW
Rated Input Voltage	AC400V
Rated Frequency	50Hz/60 Hz
PV Input	
Max Input Voltage	1000V
Max Input Power(kW)	600/660/720
Number of MPPT Modules	10/11/12
MPPT Voltage Range(V)	250-850
General Parameter	
Dimensions(W×D×H)	6058×2438×2896mm
Weight	18t
IP grade	IP55
Operating Temperature Range	-30℃~+55℃
Ralative Humidity	0-95%（no condensation）
Maximum working altitude	3000m（＞3000m，De-rated usage required）
Cooling type	Air-Cooling
Noise	≤75dB
Fire Suppression System	Aerosol
Communication Interface	Ethernet
Communication Protocol	Modbus TCP/IP
Areas Applied	Europe/China
Code & Compliance	GB/T36276、GB/T 34120、GB/T 34131、IEC62619、IEC62477、IEC61000



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QUALIFIED SUPPLIER STATEMENT

VisionCore Supplier Qualification Program

Corporate Review

Technical & R&D Evaluation

Manufacturing Capability Review

Quality & After-Sales System Review

Prepared by VisionCore Nexus

This portfolio is presented as part of the VisionCore Qualified Supplier Program.

Our Qualification Approach

VisionCore Nexus evaluates suppliers through a structured qualification framework covering corporate background, technical capability, manufacturing capability, and quality systems.

Responsibility Statement

All product specifications, certifications, performance data, project references, and technical descriptions contained in this portfolio remain the responsibility of the original supplier.