HEXON ENERGY CO. LTD

The Turnkey Storage-Centric Solution Provider

V.073026

Company Introduction

HEXON ENERGY CO. LTD is a leading provider of user-side energy storage systems and solutions. The company is dedicated to delivering safe, reliable, and high-performance battery energy storage systems (BESS) through technological innovation. **Hexon Energy International (HK) Limited** is the global investment center of the group.

Hexon Energy specializes in the global development of advanced products, technologies, and integrated services. It has established 3 major service and manufacturing hubs:

- **Guangzhou:** R&D and production base for industrial, commercial, and residential BESS.
- **Lianyungang:** Large-scale manufacturing center for utility-scale energy storage systems.
- **Bordeaux, France:** The European operations headquarters, incorporating an after-sales and technical service center.

Hexon Energy has delivered over 3 GWh of BESS across more than 100 projects, all of which comply with ISO-certified quality management systems. Looking ahead, Hexon Energy continues to strengthen its core competencies through independent innovation, contributing to the global transition towards a low-carbon future. Leveraging industry-leading user- side BESS solutions, the company aims to support the transformation of global energy infrastructure through technology- driven development.

3 +GWh
Cumulative Delivery

100 +
Projects Deployed

200 MW/MWh+
Self-Owned Solar & Storage Projects

Company Introduction

500 Million
Total Investment

2 Factories
Facilities

200 Acres
Floor Area

12GWh
Production Capbility



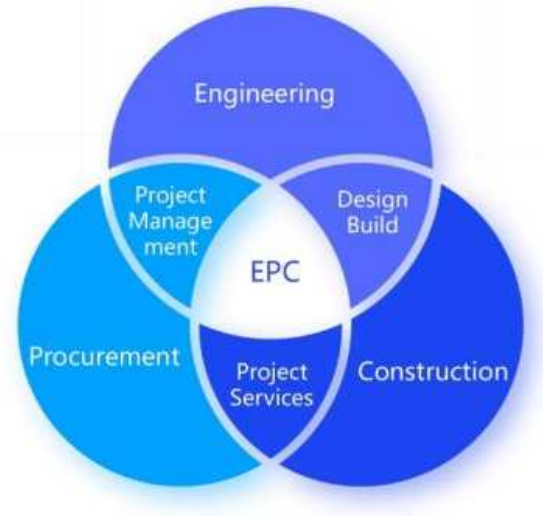



Company Introduction

The company boasts world - leading Engineering, Procurement, and Construction (EPC) capabilities, covering the entire chain of project design, equipment procurement, construction, as well as operation and maintenance management.

It has successfully delivered multiple photovoltaic power stations and energy storage projects of hundred - megawatt scale. Its project cycle management and cost - optimization capabilities have been recognized by the industry.

- **Electricity general contracting Grade II & III**
- **Electricity installation, repair and testing Grade III**
- **Foundation Specialized Contractor Grade III**
- **Specialized Contractor Grade III for Electromechanical Installation**



Company Introduction

National High-tech Enterprise

- National Science and Technology-based Small and Medium Enterprise
- Grade II & III Power Engineering General Contractor / Grade IV Power Installation, Maintenance & Testing License / Grade III/Foundation
- Engineering Specialist Contractor / Grade III Mechanical & Electrical Installation Specialist Contractor
- Vice President Unit of Energy Storage Branch, China Battery Industry Association
- Vice President Unit of Guangdong Solar Energy Association
- Top-quality PV EPC Enterprise for 3 Consecutive Years
- Top 10 Most Influential PV Enterprises in Solar Industry Development
- Member Unit of Guangdong Energy Association
- CQC Product Certification
- ISO Management System Certification

Technical Expertise

Photovoltaic power plant design

We have rich experience in the design of PV power plants and is able to develop optimal design solutions according to customer needs and project characteristics.

We adopt advanced design concepts and technical tools to ensure the efficient operation of PV power plants and long-term stable power generation.

Construction Capacity

With professional construction team and advanced construction equipment, we have strong construction capacity.

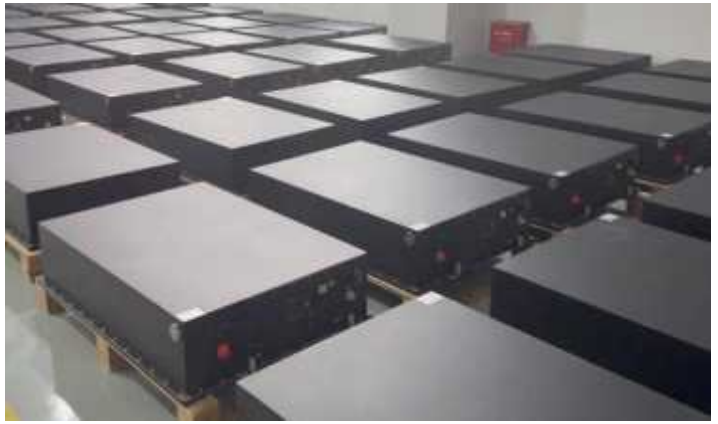
During the construction of the project, we strictly control the quality to ensure that the construction progress and project quality meet the requirements.

O&M Capability

It has established a perfect operation and maintenance management system, equipped with professional operation and maintenance personnel and advanced operation and maintenance equipment.

Through the intelligent management system, it realises real-time monitoring and data analysis of PV power stations, finds and solves problems in time, and guarantees stable operation of power stations.

Production Capbility



Service Expertise

Hexon not only improves its own service capabilities but also enhances,its service capabilities through resource integration.

22 Chinese Service Provider

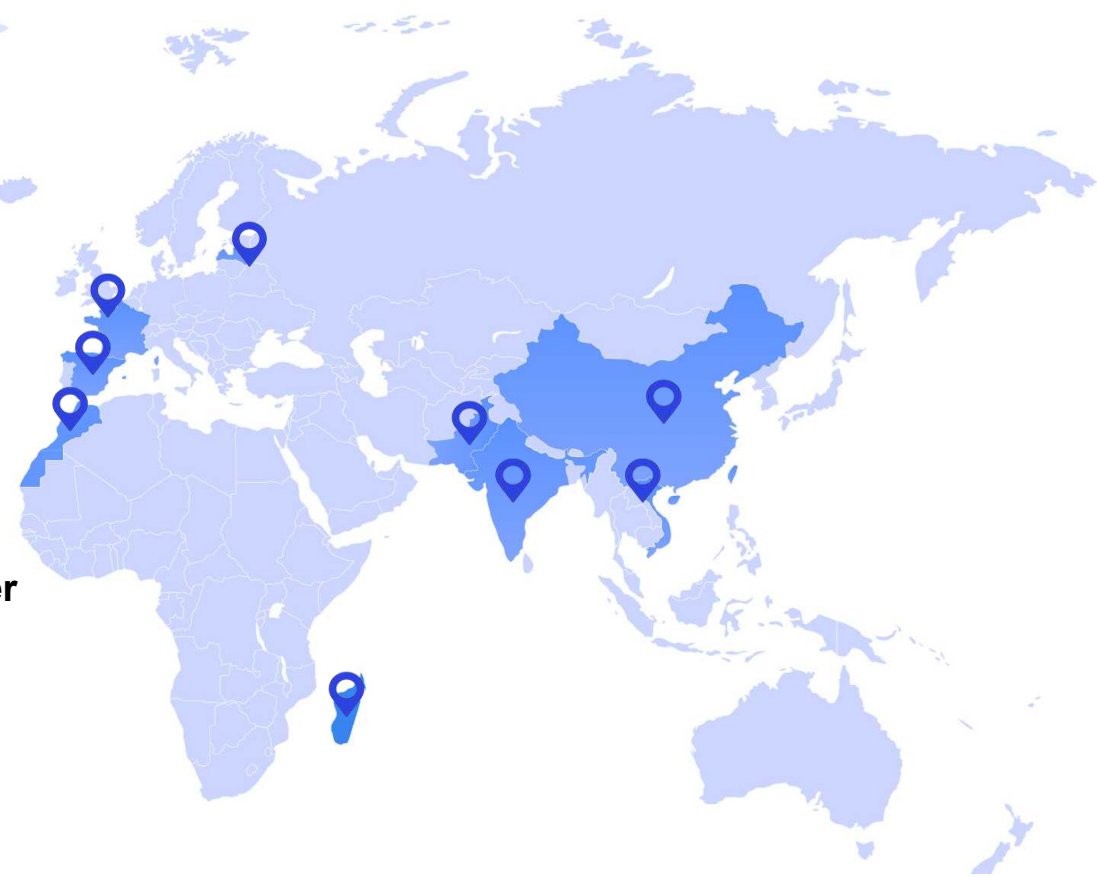
3 European Service Provide

2 Asia-Pacific Service Provider

2 African Service Provider

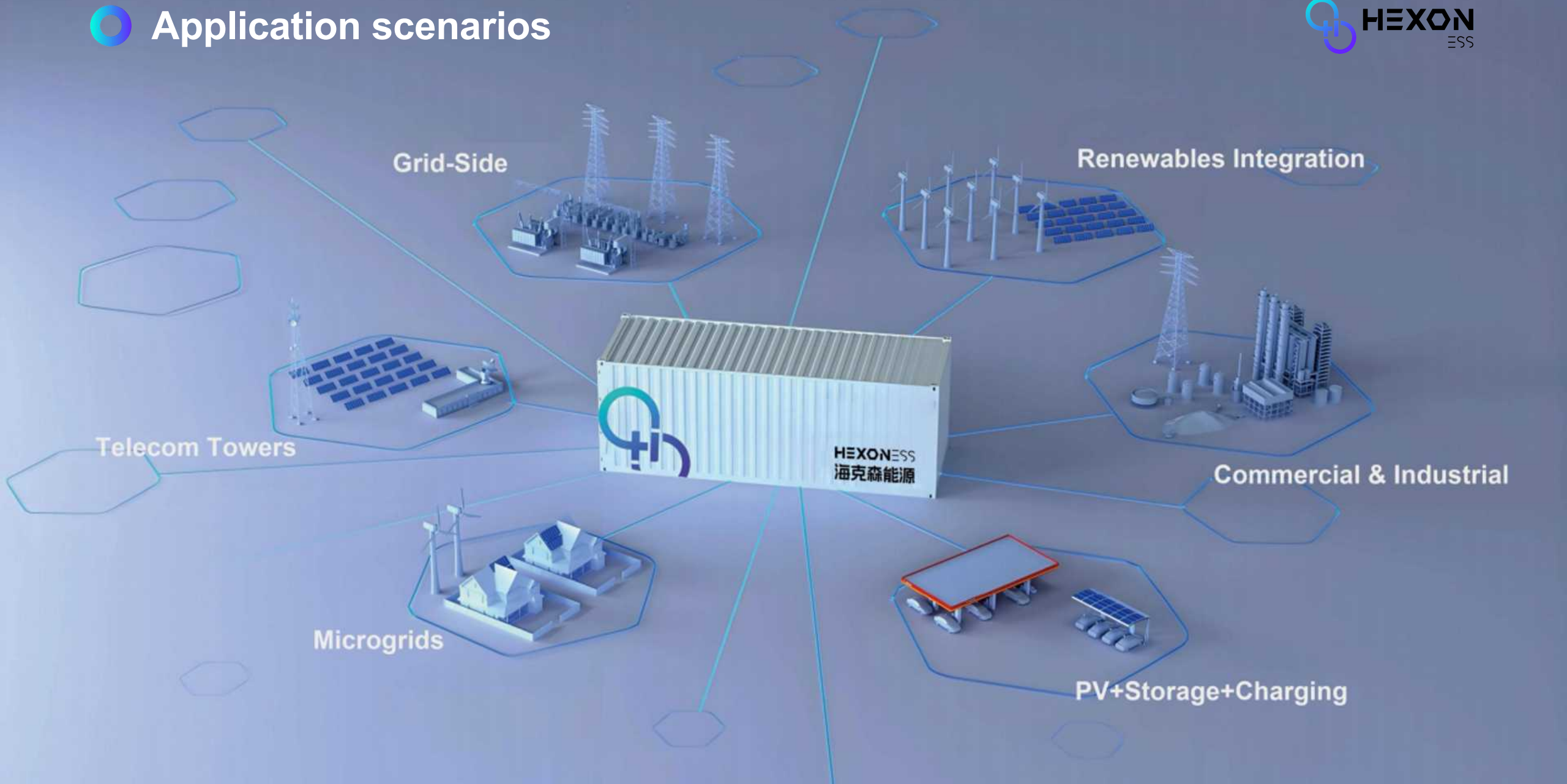
190 Service staff

2+4 Spare Parts Central Warehouse + Distribution Center



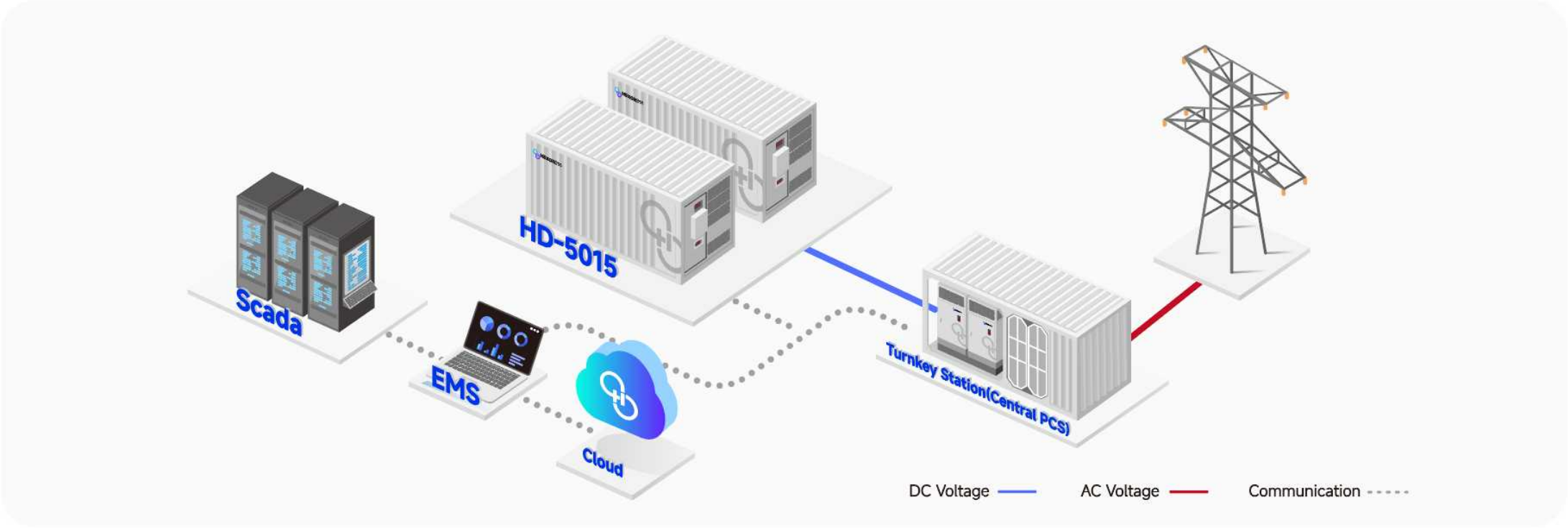
Solution and Products

Application scenarios



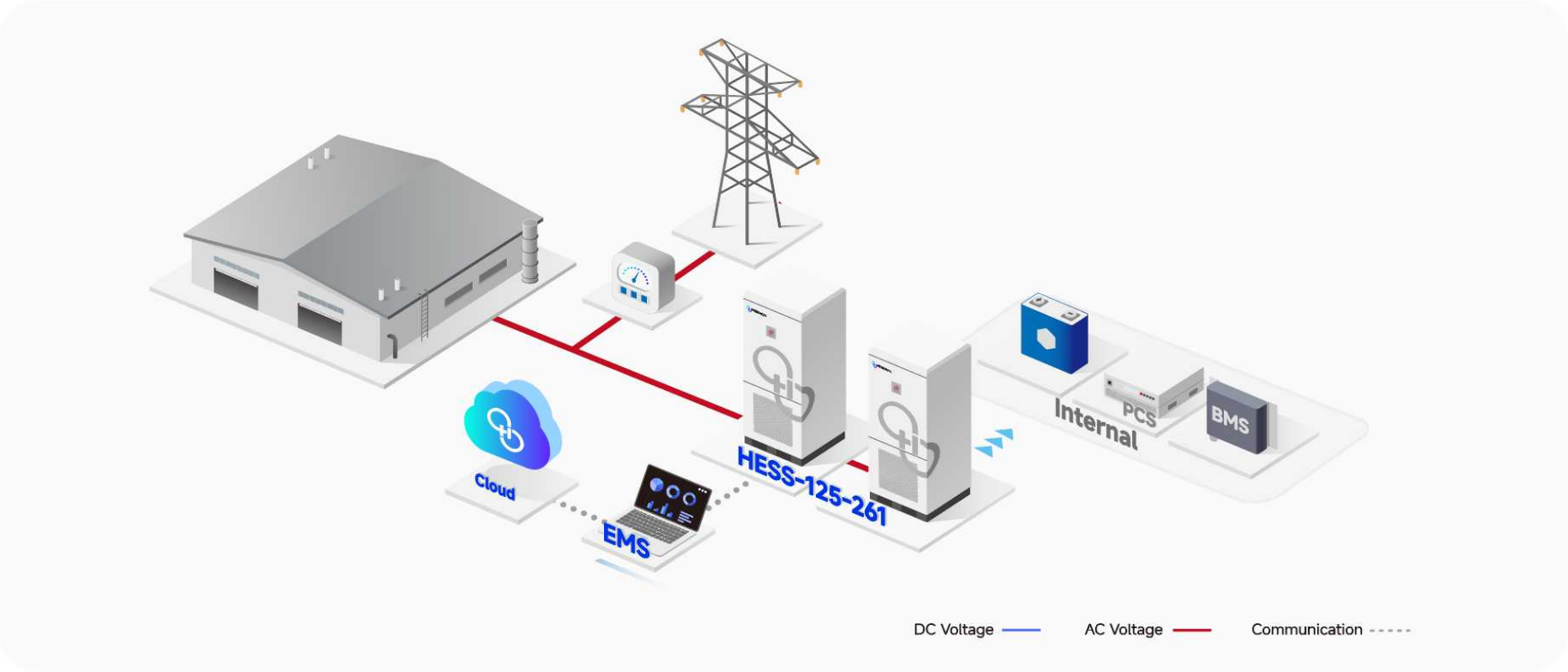
Large-Scale Ground-Mounted ESS Solution (FCR,aFRR)

Our system features fully liquid-cooled thermal management and is directly integrated into the high-voltage AC side. It provides millisecond-level precision response, participating in grid frequency regulation to enhance power quality and improve grid supply stability.



Commercial and Industrial Energy Storage Solution

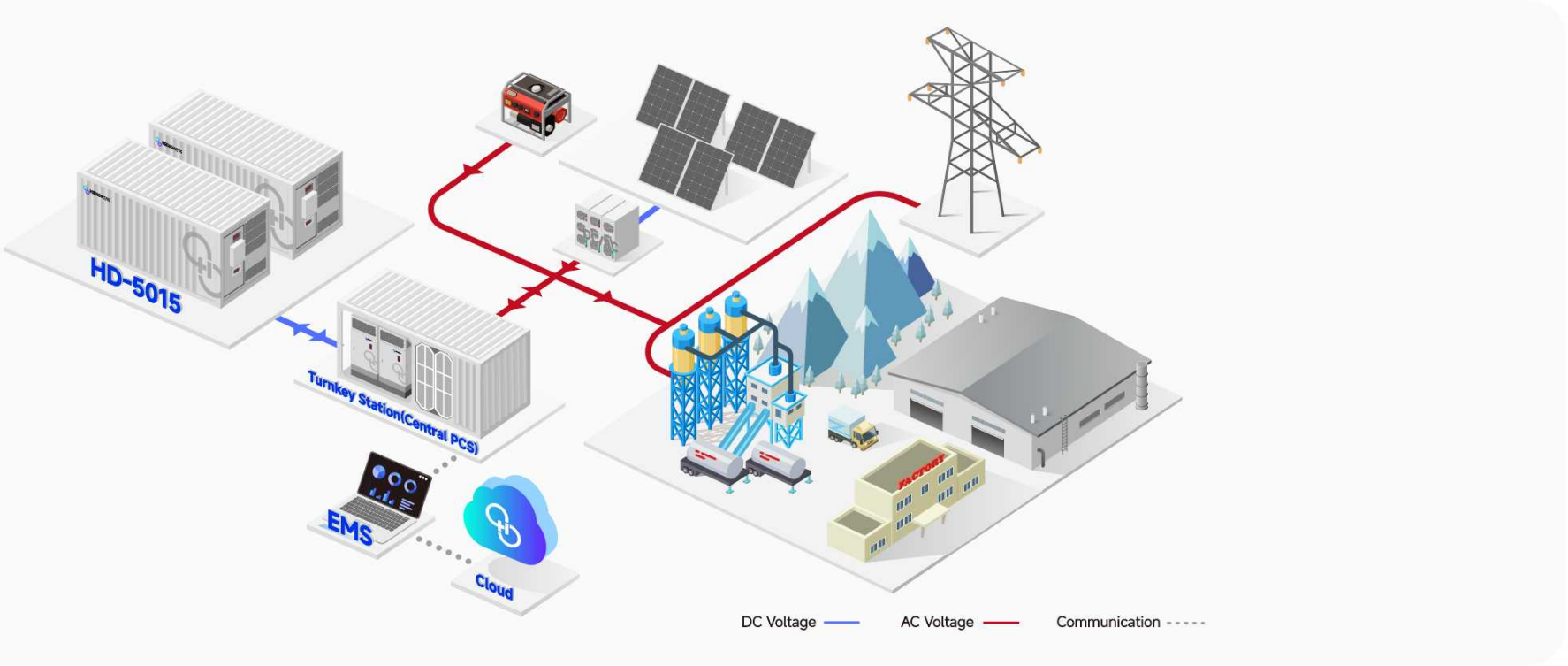
For commercial and industrial facilities with high power demand, our energy storage systems enable optimized energy management, which reduces electricity costs and increases capacity. In the event of a grid failure, the system provides backup power to ensure continuous operation of critical loads.



Multi-Energy Integration Solution for Microgrids

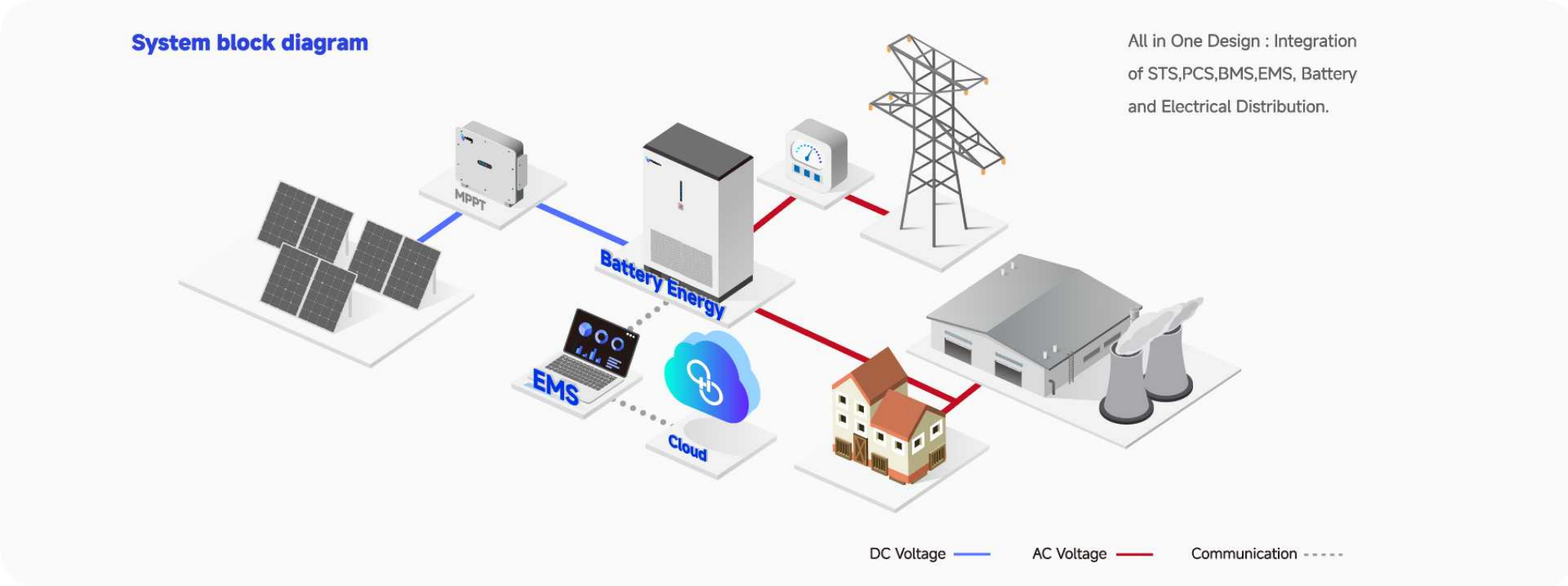
In complementary power supply systems that incorporate multiple energy sources—such as wind, solar, diesel generators,and the grid—integrated energy storage serves as the cornerstone of microgrids. It balances power output and ensuresstable system operation. These solutions are ideal for remote locations like mines, islands, and mountainous areas, or any region with an unstable power supply. They are equally effective for optimizing energy use in new zero-carbon campuses.

Large.Scale Microgrid Solution



Integrated PV-ESS-Diesel Generator Microgrid System

High integration of photovoltaic and energy storage designed in one cabinet with DC-coupled. High efficiency and small size, which is easy for installation and maintenance; It has seamless switching between grid-connected and off-grid modes within 20ms and multi-mode operation functions. It also can supports peak shaving and valley filling, bringing strong single-phase load capacity. It can be expanded in 1+1 parallel modes.



Products - Utility

Turnkey Battery Energy Storage System

String PCS Skid + Battery Container+ EMS

1MW/2MWh - 5MW/10MWh(Customized)

Central PCS Skid+ Battery Container +EMS

1.75MW/3.34MWh ~ 5MW/10MWh(Customized)

Products - Utility

6250 | 5015 | 4180 | 3762 | 3344kWh Battery Storage DC Container

(6250/5015/4180/3762/3344kWh)

Comprehensive Safety

- Highly stable LFP battery cells
- Multi-level fire protection and explosion-proof design
- Intelligent monitoring, second-level response

Stable Operation

- Liquid cooling, cell temperature difference < 3°C
- Cluster-level management, eliminating the barrel effect
- Wide voltage adaptation, weak grid support

Ultimate Energy Efficiency

- High energy density, reduced footprint
- DC efficiency ≥ 94%
- AI strategy for maximizing revenue

Easy Deployment

- Flexible configuration, adaptable to multiple scenarios
- Plug and play, deployment cycle shortened by 40%
- Cloud-based O&M, efficiency improved by 50%

Detailed parameters

Model	HBAT-5015-104S	HBAT-4180-104S	HBAT-3762-104S	HBAT-3344-104S
Battery Parameters				
Cell Type	LFP-3.2V-314Ah			
Nominal Capacity	5015kWh	4180kWh	3762kWh	3344kWh
DC Voltage Range	1165V～1497V			
Charge/Discharge Rate(C-rate)	≤0.5CP			
Maximum Charge	2500kW			
Operating Temperature	Charging: 0℃～60℃; Discharging: -30℃～60℃			
Recommended Ambient Temperature	25±10			
Cycle Life	≥6000 cycles（25±10℃ , 100%DOD， 80%EOL）			
Cooling Method	liquid cooling			
System Parameters				
Auxiliary Power Parameters	38kW-400V/50Hz，3N+PE			
Fire Protection System	Aerosol + water fire fighting			
Corrosion Protection Level	C4 (C5 optional)			
Lightning Protection Level	Level II			
Ingress Protection (IP) Rating	IP54			
Operating Temperature Range	0~95%RH, no condensation			
Installation Method	outdoor installation			
Operating Conditions	2 charge, 2 discharge			
System Communication Interface	Modbus TCP/IEC61850			
Altitude	≤3000m			
Dimensions(W*D*H)	6058(W)*2438(D)*2896(H)mm			
Weight	42T	36T	33T	30T
Certifications	IEC62619/IEC61000/IEC62477/UN38.3			

Model	HBAT-5015-104S
Cell Type	LFP-350Ah
Cycle Life	≥6000 cycles（25±10℃ , 100%DOD， 80%EOL）
Dimensions(W*D*H)	6058(W)*2438(D)*3100(H) mm
Weight	43T
Cell Configuration	1P384S*12
Energy Output(Max.)	5160kWh
Nominal Voltage	1228.80
Charge/Discharge Rate	≤0.5P
Protection Level	IP55
Corrosion Resistance	C4/C5
Pollution Resistance Level	II
Temperature Range	-30℃~55℃
Operating Altitude	<3000m(derated at 4000m)
Humidity Range	0~95%，no condensation
Certifications	IEC/GB/UN38.3

Products - Utility

500kW/1MWh All-in-one On/off-grid Energy Storage System

HEA-500-1044-10FT

Engineered for commercial and industrial energy demands, the HEX-1044-10FT is a fully integrated 10-ft containerized energy storage system featuring a 400V rated AC output.Integrated static transfer switch (STS) hardware empowers the unit with outstanding off-grid load bearing performance, alongside glitch-free transition between grid-connected and off-grid modes in under 20ms.Specialized connection ports for diesel generators and photovoltaic inverters are pre-installed to realize coordinated power supply from multiple energy sources.

Plug&Play Design

- ·10-ft Container Saves installation space
- ·Integrated System Higher capacity with compact footprint
- ·Higher Capacity Delivers more energy in a smaller footprint

Flexible Switching

- ·Built-in STS Enables seamless power transfer
- ·20ms Switching Fast transition between power modes
- ·Reliable Backup Keeps critical loads running

String-Based Architecture

- ·Independent Management Separate management for every battery string
- ·Higher Reliability Reduces fault propagation

Multiple Power Sources

- ·PV Compatible Works with solar systems
- ·Generator Ready Supports diesel generator integration
- ·Flexible Deployment Adapts to various applications

Detailed parameters

Model	HEX-1044-10FT
Battery Side	
Cell Type	LFP / 314 Ah
Pack Configuration	52.2 kWh / 1P52S
System Configuration	1044 kWh / 4P260S
Rated DC Voltage	832 V
DC Voltage Range	728 ~ 936 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 ℃)
Grid Side	
Rated Output Power	500 kW
Max. Apparent Power	550 kVA
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
On/o-grid Switching Time	<20 ms
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	＜0.5% Ipn
Backup Side	
Max. PV Inverter Input Current	800 A
Max. Diesel Generator Input Current	800 A
Max. Backup Load Port Current	800 A
Recommended Max. Backup Load Power*	350 kW (70% of Rated Output Power)
General	
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol system(pack level and container level), water spray system
Ingress Rating	IP54
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25℃~55℃(Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	5~95% RH (non-condensing)
Noise	≤ 80 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	2991*2438*2591 mm
Weight	14 t
Certification	UN38 .3, IEC62477-1, CE/EMC, IEC62619, IEC63056, UL9540A, EN50549

Products - Utility

100/120kWh Air-cooled Hybrid DC Cabinet

HD-100/120-E

Developed with integrated energy storage and digital monitoring technologies, the HEX-HY-100/120kWh series serves as a complete PV-ESS integrated solution.Housed in a single compact cabinet are core modules including lithium battery packs, HVAC
thermal control units, fire suppression systems (FSS) and EMS.The streamlined structure shortens on-site installation time and supports flexible capacity expansion to meet varied demand.When coupled with a hybrid inverter, the system features diverse operating modes and fully configurable energy management strategies.

Comprehensive Safety & Heat Resistance

- ·High Outdoor Grade IP55 dustproof & waterproof
- ·Balanced Cooling Optimized ventilation, temp gap ≤6℃
- ·Stable Operation Reliable performance under high temperature

Simple Dual-mode O&M

- Cloud Diagnosis Fast fault detection in real time
- ·Dual Control Local onsite & cloud remote monitoring
- ·Low Labor Cost Reduce frequent field inspection

High Efficiency & Cost Saving

- ·High Energy Utilization Up to 90% RTE, 100% DOD
- ·Self-developed Integration LFP 314Ah 3S all-in-one system
- ·Wide Compatibility Supports PV & most hybrid inverters

Compact & Flexible Deployment

- Small Footprint Only 0.96㎡, easy transport & install
- Wide Compatibility Fits mainstream 30–50kW hybrid inverters
- Modular Scalability Parallel design for on-demand expansion

Detailed parameters

Model	HEX-HY-100kWh	HEX-HY-120kWh
Battery Cabinet	**HEX-HY-100kWh**	**HEX-HY-120kWh**
Cell Type	LFP / 314 Ah	LFP / 314 Ah
Pack Configuration	20.096 kWh / 1P20S	20.096 kWh / 1P20S
System Configuration	100.48 kWh / 1P100S	120.576 kWh / 1P120S
Rated DC Voltage	320 V	384 V
DC Voltage Range	280 ~ 360 V	336 ~ 432 V
Max. Charge/Discharge Rate	0.5 P	
Max. Depth of Discharge	100% (25 ± 2 ℃)	
Cycle Life	≥ 8,000 cycles	

AC Side			
Rated Output Power	30kW	40kW	50kW
Rated AC Voltage	400V		
AC Voltage Range	±15%		
Grid Type	3W+N+PE		
Rated Frequency	50Hz/60Hz		
Power Factor	0.99/-0.8~+0.8		
THDi	≤3%		
DC Ratio	＜0.5% Ipn		

PV Input			
Max. input power	60kW	80kW	100kW
PV Voltage Range	150 ~ 850V	150 ~ 850V	150 ~ 850V
MPPT	3	4	4
Max. input Current	40A*3	40A*4	40A*4

System parameters	
Max. Round Trip Efficiency	90%
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25℃~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	800*1,200*2,100 mm
Weight	1200 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11

Products - C&I

125/261kWh All-in-oneC&IEnergy Storage System

HESS-125-261

Comprehensive Safety

- Proactive Alert Cell-level monitoring, early warning
- Multi-Level Protection Pack, cluster, cabin isolation
- Fire & Explosion Prevention Triple fire protection, vent design

High Efficiency

- High Conversion System efficiency ≥87%
- AI-Powered Scheduling Optimized energy dispatch
- Maximized ROI Peak shaving & other revenue streams

Simple O&M

- Cloud Diagnosis Fault identification in seconds
- Remote Management Cloud-based monitoring & control
- 24/7 Guardian Expert team always on watch

Easy Deployment

- Plug & Play Pre-installed, powered on arrival
- Time Saving Drastically reduces installation time
- Scalable Design Modular expansion as needed

Detailed parameters

Model	HESS-125-261

DC Side Parameters

Battery Capacity	261kWh
System Configuration	1P52S
Battery Pack Configuration	52.25kWh
Cell Type	LFP 314Ah
Battery Voltage Range	728~936V
Ip Rating	IP66

AC Side Parameters

Ac Rated Power	125kW
Total Current Waveform Distortion Rate	≤3%（at rated power）
Dc Component Of Current	≤0.5%（at rated power）
Rated Grid Voltage	400V
Grid Voltage Deviation	-15%~+15%
Ac Overload Capacity	1.1times long-term
Ac Wiring Method	3P+N+PE
Rated Grid Frequency	50Hz/60Hz±2.5Hz
Power Factor	0.99/-1～1
Ac Protection	Circuit breaker + AC lightning protection

System Parameters

Maximum System Efficiency	87%
Battery Cell Cooling Method	Liquid Cooling
Remote Monitoring	Cloud Platform
Noise	≤75dB@1m
Communication Interface	Ethernet 、RS485
Communication Protocol	MODBUS-TCP/MODBUS-RTU
Maintenance Method	Double-sided maintenance
Installation Location	Outdoor
Outlet Method	Down in and out
Operating Temperature Range	-25℃~55℃
Maximum Operating Altitude	3000m
Operating Humidity Range	5%~95%RH，no condensation
Corrosion Resistance Level	C3-M(standard)/C4/C5
Protection Level	Battery compartment IP55 + electrical compartment IP54
Fire Protection System	PACK -level aerosol + cabin-level aerosol + water firefighting (optional)
Product Dimensions (W×D×H)	1100×1320×2560mm
Weight	2600kg
Certification	GB/T 36276，UN38.3，IEC62619，IEC62477，IEC61000

Products - C&I

HEXON ESS

215/418kWh Energy Storage System

HA-215-418-2

Supports AC800V direct coupled photovoltaics without the need for transformers

This product is specifically optimized for photovoltaic-storage integrated applications, enabling direct parallel coupling with AC800V-compatible photovoltaic inverters to achieve transformer-free integration, significantly reducing system costs and losses

Comprehensive Safety

- Proactive Alert Cell-level monitoring, early warning
- ·Multi-Level Protection Pack, cluster, cabin isolation
- ·Fire & Explosion Prevention Triple fire protection, vent design

Simple O&M

- Cloud Diagnosis Fault identification in seconds
- ·Remote Management Cloud-based monitoring & control
- ·24/7 Guardian Expert team always on watch

High Efficiency

- ·High Conversion System efficiency ≥87%
- ·AI-Powered Scheduling Optimized energy dispatch
- ·Maximized ROI Peak shaving & other revenue stream

Easy Deployment

- Plug & Play Pre-installed, powered on arrival
- ·Time Saving Drastically reduces installation time
- ·Scalable Design Modular expansion as needed

Peak Shaving

Arbitrge

Backup Power

Grid Services

Detailed parameters

Model	HA-215-418-2
Basic Parameters	
Rated Power	215 kW
Battery Capacity	418 kWh
Dimensions (W×D×H)	1420×1350×2350mm
Weight	3800kg
DC Side Parameters	
Cell Type	LFP 3.2 V / 314 Ah
System Pack Configuration	1P52S * 8
Battery Voltage Range	1165-1497 VDC
AC Side Parameters	
Rated Output Voltage	690/800（-15% ~ 15%）Vac
Rated Mains Frequency	50/60 Hz
Charge-Discharge Conversion Time	<100 ms

System Parameters	
Cycle Count	8000 ~ 10000 cycle
Full Cabinet Energy Conversion Efficiency	Maximum 90%
Max. Backup Load Port Current	800 A
Protection Rating	IP66 (battery Pack)/IP54 (equipment compartment)/PCS(IP66)
Operating Temperature	-30℃ ~ +55℃
Corrosion Resistance Rating	C4(C5Customisable)
Fire Suppression System	PACK-level precision fire suppression + compartment-level fire suppression (aerosol)
Overload Capacity	110% load, 10 minutes; 120% load, 1 minute
Permissible Ambient Humidity	0~100% RH
Cooling Method	Liquid cooling

Products - C&I

225kWh
Air-cooled Energy Storage DC Cabinet

HEX225-400-A

- Intelligent Synergistic Energy Management Platform
- High-Precision Battery Management System
- Comprehensive Safety Protection System
- Smart O&M & Reliable

Detailed parameters

Model	HEX225-400-A
DC Battery	
Cell Type	LFP 314Ah
Battery Pack Capacity And Configuration	16.077kWh/1P16S
Battery Capacity And Number Of Packs	225kWh/14
Charge And Discharge Ratio	≤0.5C
Depth Of Discharge	100%
Cycle Index	8000cls（0.5P，25±2℃，@70%SOH）
Temperature Detection Points	112
Inverter DC	
Rated Current	200A
Rated Power	143.4kW
PV DC Side	
Maximum Number Of Input Branches	2-way (optional 2 PV MPPT controllers)
Rated Current Of Each Channel	168Ax2
Rated Power Of Each Channel	120kWx2

System	
Factory-Set SOC Value	30%-50%
Battery Voltage Range	627V~806V
Rated Voltage	716.8V
Operating Temperature	-30~55℃
Relative Humidity	0~95%RH，non-condensing
Dimensions(W×D×H)	1050×1050×2350mm
Weight	2100kG
IP Rating	(Complete machine)IP54
Noise	＜70dB
Cooling Method	Forced air cooling
Related Certificates	CE/UN38.3/MSDS/Sea Transportation Certificate/Land Transportation Certificate/Danger Identification Report

Products - C&I

125kW/225kWh|257kWh
On/Off-grid All-in-one Energy Storage System

(HEXSTS125kW-225kWh)
(HEXSTS125kW-257kWh)

Comprehensive Safety

- Active Protection 128-point temperature monitoring & warning
- ·Multi-Level Safety Three-level BMS fault protection strategy
- ·Fire Prevention Aerosol fire suppression with IP54 enclosure

High Efficiency

- ·8000+ Cycles Long-life LFP 314Ah battery technology
- ·≥90% Efficiency High-performance energy conversion
- ·Maximized ROI Peak shaving and energy cost optimization

Simple O&M

- ·Remote Management Cloud-based monitoring & control
- ·Intelligent Dispatch EMS-driven energy optimization
- ·Real-Time Diagnosis Instant fault detection and alarm

Easy Deployment

- ·All-in-One System Fully integrated hybrid ESS solution
- ·<20ms Switching Seamless power source transition
- ·Flexible Expansion Modular design for future scalability

Products - Hybrid ESS

Integrated PV-ESS-Diesel Generator Microgrid System

HEXSTS64-128kWh-400-A

FWESTS125-225kWh-400-A

HEXP250TS-400-A

HEXP500TS-400-A

HEX225-400-A

HEX2570-400-A

PV MPPT Controler

Products - MPPT

PV MPPT Controller

HEXMPPT-12/ HEXMPPT-24

Smart Power Tracking Technology

- Real-Time Dynamic Optimization: Continuously monitors the solar panel's voltage and current, automatically locking onto the Maximum Power Point (MPP) for peak performance.
- Adaptive Algorithm: Intelligently adjusts the operating point in response to varying light intensity and temperature, increasing energy harvest by 15-30%.

High-Efficiency DC Coupled System

- Direct Charging Architecture: Solar panels charge the battery directly, minimizing AC-DC conversion losses (efficiency loss <3%).
- Flexible Array Configuration: Supports hybrid connection of panels with different orientations and tilt angles, ideal for complex installation environments.

Precise Charging Management

- Charging Precision: Utilizes voltage threshold control and a dynamic MPP tracking algorithm for accuracy.
- Battery Protection: Safeguards against overcharge and over-discharge, with an optimized three-stage charging curve (Bulk, Absorption, Float).
- Temperature Compensation: Features baseline compensation with adaptive adjustment across the entire operating temperature range.

Scenario Adaptability & Reliability

- Robust Performance in Complex Environments: Rapidly tracks MPP fluctuations on cloudy days and operates reliably across a wide temperature range of -25°C to 60°C.
- Scalable System Design: A modular architecture allows for the parallel connection of multiple controllers for expanded capacity

Detailed parameters

Model	HEXMPPT-24	HEXMPPT-12
PV-Side Interface		
Maximum PV array voltage	Not exceeding 1500V and not surpassing the maximum withstand voltage of the backend battery	
MPPT voltage range	500V-1460V	200V-900V
Rated MPPT voltage range	900V-1266V	560V-900V
Maximum branch current	30A	20A
PV input strings number	24	12
Number of MPPT	6	4
Current per MPPT	60A	55A
Output		
Voltage range	950-1500V	600-950V
Rated voltage	default 1331.2V，adjustable	Default 71 6.8v, adjustable
Rated output current	240A	80A
Rated output power	320kW	60kW
Maximum output current	278A	120A
System		
European efficiency	99.4%	
IP grade	IP66	IP65
Cooling method	Air-cooling	99.4% Air-cooling
Dimensions	900×340×600mm	610×480×257mm
Weight	60kg	25kg
Operating temperature	-30~55°C	
Power supply mode	Self-powered (no power consumption atnight)	
Communication interface	RS485	

Products - EMS

HEXON ESS

Microgrid Energy Management System

Data Dashboard

View the site overview, including statistics on charging and discharging

Power Plant Management

Site operation status, revenue, etc

Remote Management

Remote support operations and OTA upgrades

Battery Monitoring

Check the battery charge and discharge status and real-time data

Preference

References-Latvia

Own-Investment Portfolio-Standalone BESS, Latvia

Location: 1-hour drive from Riga center (Ideal for Showroom)

Capacity: 0.5Mw/2MWh

Key Highlights:

Existing PV infrastructure and on-site legacy storage assets allow for rapid deployment and optimized integration costs.

High-growth potential to scale up to a 4.99 MW PV + 5MW/10MWh BESS system, maximizing long-term grid-trading revenue.

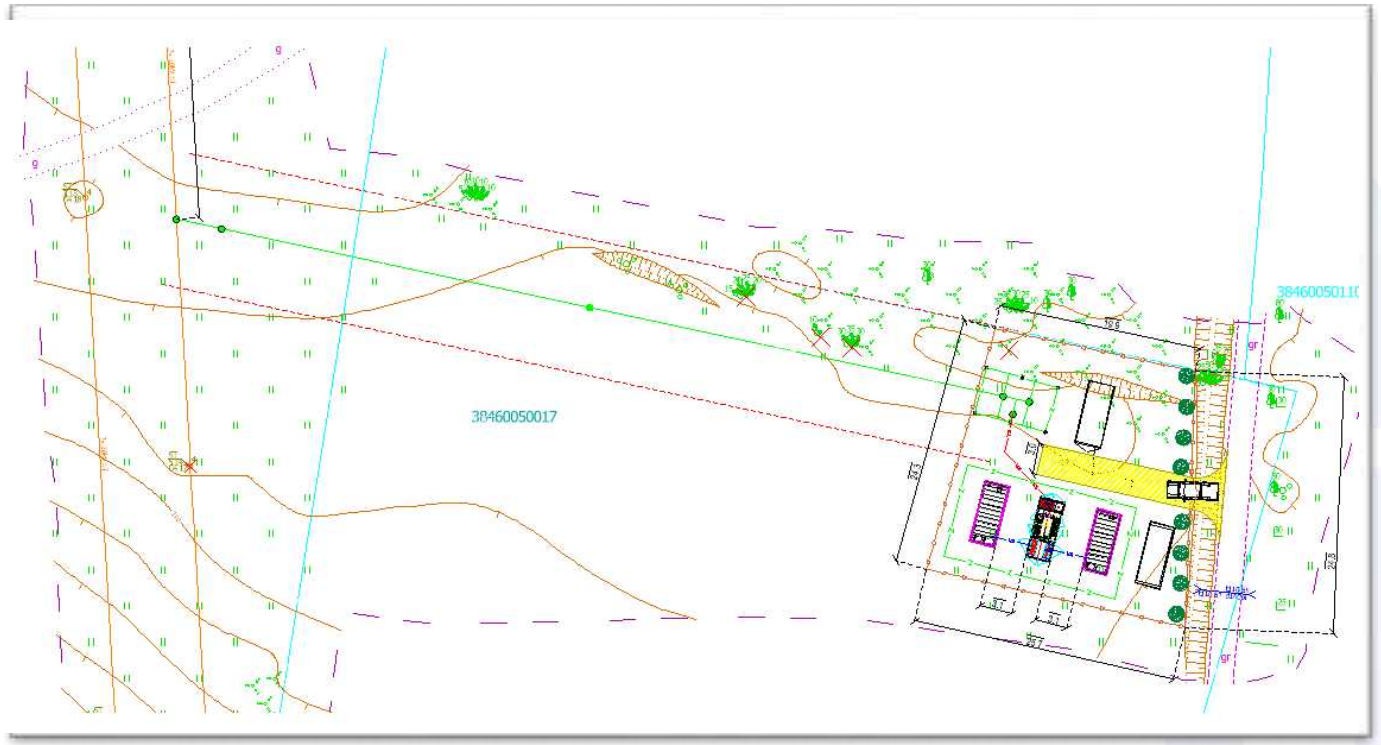
References-Latvia

Own-Investment Portfolio-Standalone BESS, Latvia

Funding Source: 100% Equity / Fully Self-Funded

Capacity: 3 MW / 10 MWh

COD: Autumn 2026



References-India

Location: India

Scale: 0.5~3MWh

Project Type: C&I BESS

Key Highlights:

Ensures stable operation under 45°C+ climates with zero derating.

Customizable configurations to adapt to complex C&I sites.

Replaces expensive DG sets to secure reliable, low-cost backup power.

Leverages Time-of-Day tariffs for accelerated ROI via peak shaving.

References-Madagascar

Antananarivo 500kW/1000kWh Hybrid Solar-plus-Storage Project

Location: Antananarivo, Madagascar

Scale: 500 kW / 1,000 kWh (0.5 MW / 1.0 MWh)

System Type: On-grid & Off-grid Hybrid System (Low-Voltage Side: 3-Phase 380V)

Environment Conditions:
•**Temperature:** 10°C – 30°C (Annual Average: 20°C)

Key Highlights:
•**Solar Self-Consumption & Load Shifting:** Optimizes PV microgrid operations by storing excess daytime solar energy and nighttime grid power to fully support daytime factory production.
•**Microgrid Resilience:** Supports seamless on/off-grid switching to guarantee an uninterrupted and reliable power supply.

References

Lianyungang Energy Group 150MW/300MWh Independent Shared NewEnergy Storage Project

Location: Guannan County, Lianyungang City, Jiangsu Province

Scale: 150MW/300MWh

Configuration:

•Non-walk-in liquid-cooled lithium iron phosphate (LFP) energy storage system (149MW/298MWh)

•Sodium-ion (Na-ion) energy storage system (1MW/2MWh)

Key Highlights:

•Meets the technical requirements for independent participation in grid ancillary services, including frequency regulation and peak shaving.

References

Lianyungang Donghai 50MW/100MWh Energy Storage Power StationProject

Location: Donghai County, Lianyungang City, Jiangsu Province, China

Scale: 50MW/100MWh

Technology: Utilizes high-capacity 314Ah lithium iron phosphate (LFP) battery cells, delivering significantly higher energy density compared to mainstream 280Ah-based energy storage systems.

Key Advantages:

•**Space Efficiency:** The 5MWh liquid-cooled energy storage system reduces footprint by **43%** compared to conventional 3.72MWh units (at 100MW scale).

•**Cost Savings:** Achieves **26% lower initial investment costs** versus industry-standard solutions.

References

50MW/100 MWh Energy Storage Project in Ganyu

Location: Ganyu County, Jiangsu Province

Configuration:

Covers ~45 mu, with total installed capacity of 100 MWh Equipped with Hexoness Energy's full-set lithium iron phosphate energy storage system, including advanced BMS, efficient liquid-cooling temperature control, and Pack-level fire-fighting system

Key Advantages:

- BMS enables battery state estimation, equalization management, fault diagnosis, real-time monitoring & intelligent management for safe operation
- Liquid-cooling control keeps Pack internal temperature < 3°C and cabin-level temperature difference < 5°C, reducing battery aging
- Pack-level fire-fighting system integrates enclosed targeted extinguishing, detection, combustible gas detection, smoke prevention & explosion venting, with BMS-whole-machine linkage protection for full-life-cycle safety

References

Jiangsu Shenyuan Group 10MW/20MWh Energy Storage Station

Location: Taizhou, Jiangsu

Configuration:

•4×5MWh liquid-cooled containers

•314Ah LFP batteries with ±1℃ temperature control

Operational Highlights:

•Commissioned in 2023

•92% round-trip efficiency

•10ms grid-to-island mode switching

•Saves $1.2M annually in peak demand charges

Key Advantages:

• 24/7 critical load protection

• 26% lower OPEX vs air-cooled systems

• Qualified for TSO ancillary services

References

100MW/200MWh Energy Storage Power Station

Location: Ningxia

Configuration:

•100MW/200MWh shared energy storage power station, covering about 100 mu in Ningxia

•Equipped with 30 sets of lithium iron phosphate energy storage units; operated via self-developed green smart energy storage cloud platform

Key Advantages:

•Innovated shared energy storage business model, built financing structure, and adopted "investment-construction-operation integration" model to ensure fund & resource integration

•Overcame extreme Gobi conditions (45°C high temperatures, frequent sandstorms), completed hoisting of energy storage units in advance, breaking construction limits

•Realized millisecond-level source-grid-load coordinated management through self-developed cloud platform, ensuring efficient and stable operation

References

China Electric Power Construction Group Jilin Institute invests in the (Ningxia) Chiyang Yanchi County 100MW/200MWh Energy Storage Power Station

Location: Ningxia

Configuration:

100MW/200MWh installed capacity, with complete power grid facilities

Constructed under the supervision of China Electric Power Construction Group Jilin Institute

Key Advantages:

- Strong power storage and regulation capabilities due to large scale
- Shared model reduces costs and boosts utilization rates
- Enhances power grid stability and promotes new energy consumption
- Experienced supervision and complete facilities ensure efficient operation

References

Jurong Huayang 100MW/200MWh Shared Energy Storage Power Station

Location: Jiangsu, China

Scale: 100MW / 200MWh

Status: Commissioned (or Completed)

Key Advantages:

- Flexible dispatch based on demand; maximizes utilization and ROI through shared investment.
- Fast-Track Delivery: Innovative **"Pre-production + On-site Assembly"** model significantly reduced lead times.
- Expert Support: Dedicated technical team ensured rapid, high-quality installation.

References

Ziyang Ruiyan 40MW/80MWh ESS & VPP Project

Location: Ziyang, Sichuan
Scale: 40MW / 80MWh (Distributed C&I Storage)
Status: Operational
Key Advantages:

- Smart VPP Integration: Millisecond-level source-grid-load coordination via self-developed Cloud Platform.
- Intelligent O&M: Remote monitoring, fault warning, and smart dispatch for distributed cabinet clusters.
- Full Lifecycle Support: Standardized delivery and operation model for maximum efficiency.

References

1.118MW/2.236MWh energy storage system in Sinyink Science Park

Location: Dongguan City, Guangzhou Province

Capacity: 1.118MW/2.236MWh

Key Features:

- Peak-valley arbitrage
- Industrial peak load reduction
- The annual charge and discharge capacity of the project is about 1.63 million degrees

References

Wujiang Jingmeifeng Industrial Co., Ltd. Behind-the-MeterEnergy Storage Project

Energy Storage Project

Location: Wujiang District, Suzhou, Jiangsu

Capacity: 7MWh

Business Model: Peak-valley arbitrage

Hangzhou Fuyang Huilong Environmental Technology Co., Ltd.Energy Storage Project

Location: Hangzhou, Zhejiang Province

Capacity: 400kW/800kWh

Key Feature: Peak-valley arbitrage to reduce peak load demand

References

Solar + Energy Storage System Project

Location: Philippines

Capacity: 267.84kW PV + 250kW/400kWh

Key Features:

•Industrial peak load reduction •Backup battery

Hybrid Energy Storage Project

Location: Guinea

Capacity: 125kW/225kWh

Key Benefit:

Reduce energy cost

References

Zhejiang Yiwu Zhuopin Energy Storage System Project

Location: Yiwu City, Zhejiang Province

Capacity: 200kW/400kWh

Key Features:•Peak-valley arbitrage •Industrial peak load reduction

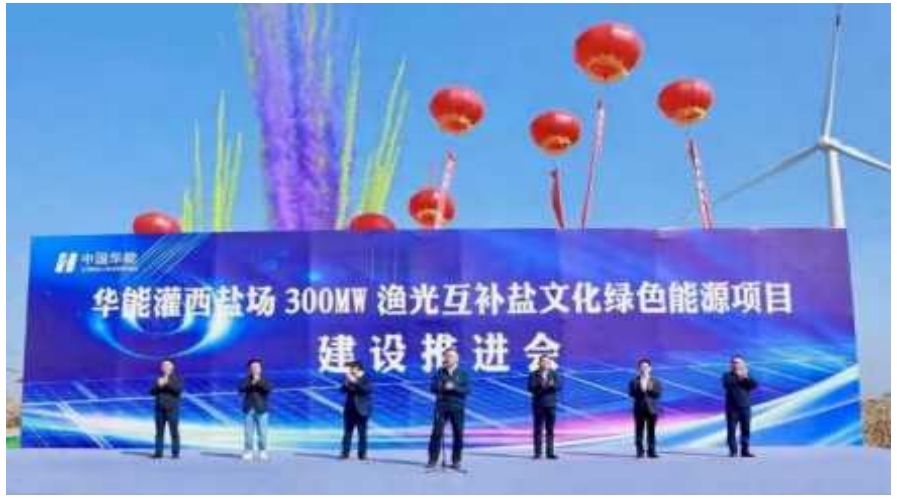
Delong Manufacturing Tech Park Project

Location: Guangdong

Capacity: 480kW/930kWh

Key Benefit: Enhances renewable energy utilization

References



Jiangsu Guanxi Salt Field 330MW Aquaculture-Photovoltaic Complementary Salt Culture Green Energy Project

Location: Guanyun County, Lianyungang City, Jiangsu Province

Highlights: The largest single centralized PV project invested in by Huaneng Jiangsu, featuring an aquaculture-photovoltaic complementary model

References

Jieyang Kaidi Technology Development Co., Ltd.

Capacity: 2.4MWp

Location: Puning City, Jieyang, Guangdong

Annual Green Power Output: 2.7 million kWh

Annual CO_2 Reduction: 2,200 metric tons

Dongguan Wanjiang Zhongchuang HuiZhiYing Tech Park BIPV Integrated Project

Location: Dongguan, Guangdong Province

System Scale:

•2.824MWp distributed PV

•1.1MW/2.2MWh energy storage

Annual Environmental Benefits:

2.67 million kWh clean energy generation

2,160 metric tons CO_2 emissions reduction

Business partner

Hexon

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