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E-Catalog

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Building up Intelligent and Green Energy Systems

MASSPOINT is a global technology enterprise, integrating R&D, production, sales, and service. We specialize in **smart microgrid system solutions,** dedicated to building reliable, cost-effective, and low-carbon energy infrastructure for global sustainability.

MASSPOINT
Company Profile

MASSPOINT is a global technology enterprise, integrating R&D, production, sales, and service. We specialize in smart microgrid system solutions, dedicated to building reliable, cost-effective, and low-carbon energy infrastructure for global sustainability.

MASSPOINT is committed to developing one product: the microgrid BESS. We focus all our efforts on researching and optimizing microgrid systems, adapting them to extremely demanding and stringent small to medium-sized projects. Based on this, we continuously optimize and iterate our EMS control system using AI algorithms, simplifying system control and operation while improving energy efficiency and stability in practical applications.

Manufacturing
Jiangmen

Branch
Australia

Headquators
Shenzhen

15+
Industry Experience

500+
Bid Solution

500+MWh
Annual Capacity

300%
Annual Growth

100%
Onsite Support

40%
R&D Investment

MASSPOINT Core Strengths

Industry-Leading Technology

Advanced technology enables higher reliability and long-term operational stability.

Advanced Customization Capability

15 years of industry experience with over 500 successfully delivered projects.

Standardized & Productized Solutions

Streamlined system selection, commissioning, and after-sales support.

Proven Field Experience

On-site support to precisely meet project-specific requirements.

Expert Team

Engineers from Emerson, Huawei, and BYD, averaging over 8 years of industry experience.

Manufacturing & Delivery

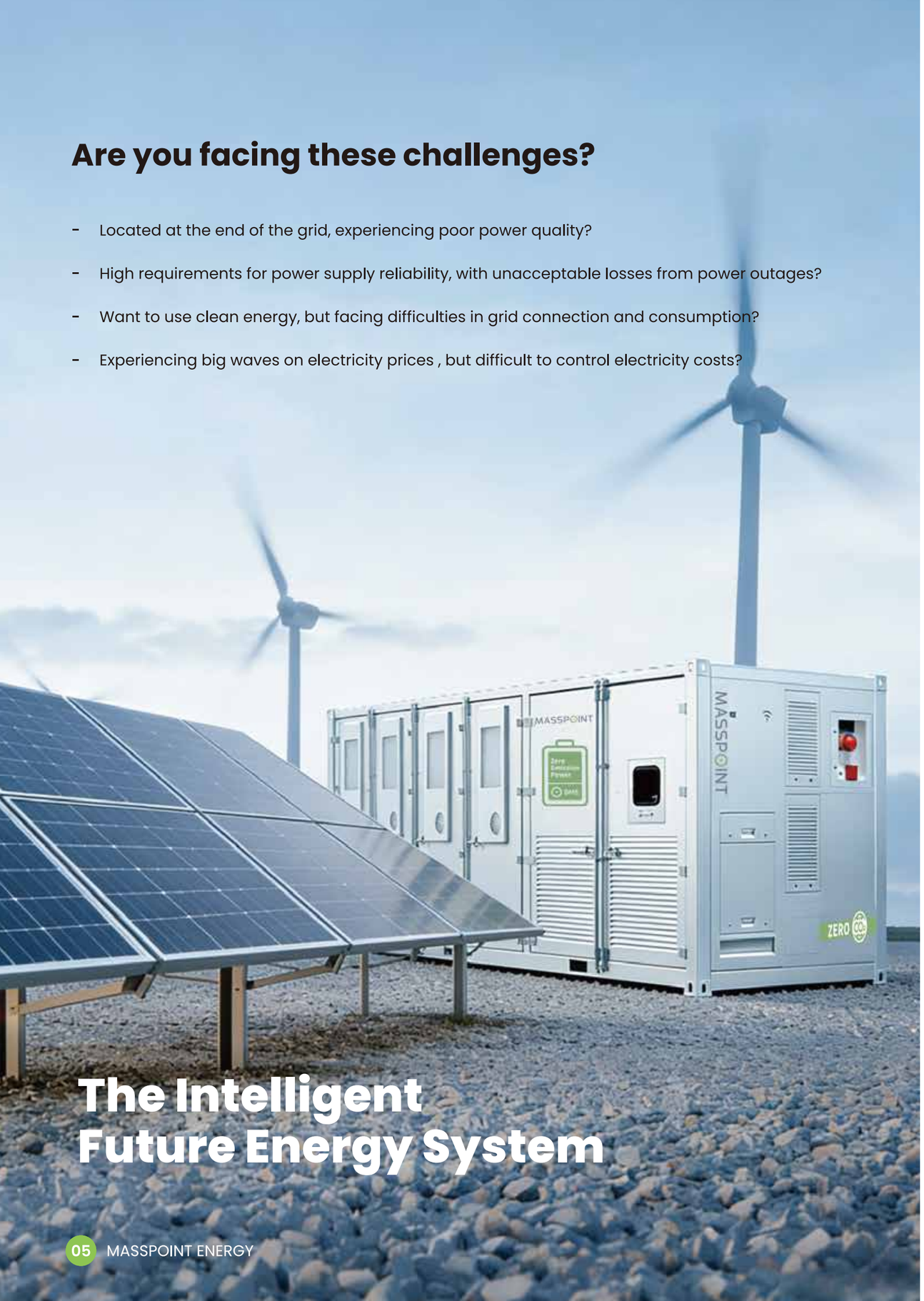
A 7,000㎡ production base in Jiangmen with precision equipment. Annual capacity of 500 MWh, average 35-day production cycle, compliant with international standards for fast and customized delivery.

Core Technology

Product range includes PV-storage-diesel microgrids, with multiple patents and international certifications. Features a self-developed, AI-integrated smart energy management system for optimized efficiency.

Global Presence

Serving markets in Australia, New Zealand, Europe, Africa, and Southeast Asia. Achieving 200%-300% annual growth. We will speed up to expand Europe market by 2026 after win the Australia market.



Are you facing these challenges?

- Located at the end of the grid, experiencing poor power quality?
- High requirements for power supply reliability, with unacceptable losses from power outages?
- Want to use clean energy, but facing difficulties in grid connection and consumption?
- Experiencing big waves on electricity prices , but difficult to control electricity costs?

The Intelligent Future Energy System

Microgrid is the answer for you.

A microgrid is an intelligent micro-energy system integrating local power generation, energy storage, and load. It can operate collaboratively with the main grid and seamlessly switch to independent operation when needed.

MASSPOINT AI Intelligent and Controllable: it automatically optimizes operating strategies, achieving precise management and control of energy.

- **Resilient and Reliable:** Possesses "islanding" capability, ensuring uninterrupted power supply to critical loads during main grid failures.

Economical and Efficient: Achieves peak shaving through AI-powered intelligent scheduling and energy storage, reducing electricity costs and generating additional revenue.

- **Green and Flexible:** Prioritizes the use of clean energy sources such as solar and wind power, contributing to the construction of a sustainable energy system.
- **Demand Response and Load Management:** Regulates power flow to meet demand while maintaining system stability.

Microgrid offers customized solutions for scenarios with high energy standards:

Off-grid power supply

Providing stable and economical independent energy supply for islands, mining areas, remote industrial zones, and remote community and grid ends.

Precision site power backup

Providing highly reliable backup power for hospitals, airports, military bases, data centers, manufacturing plants, etc., mitigating the risk of power outages.

Optimizing energy costs

Helping businesses and parks implement integrated energy management, reduce PUE, participate in demand response, hedge against electricity price fluctuations, and generate additional revenue.

Driving green transformation

Helping enterprises efficiently integrate renewable energy to achieve low-carbon emission reduction and sustainable development goals.

Charging infrastructure

Strengthening the grid to cope with the increasing electric vehicle load may avoid costly grid upgrades.

Enhancing grid resilience

As a beneficial supplement to the main grid, it can alleviate transmission and distribution congestion locally and improve regional power quality.

In islanded mode, will be used as a standalone power solution. It is ideal for meeting the needs of zero-noise environments such as nighttime operations and remote communication applications.

In hybrid mode, the industrial hybrid BESS can be used with any diesel generator to achieve intelligent load management. With its zero-noise emissions, hybrid mode is ideal for a variety of demanding applications, such as any construction site. The AI-powered intelligent management system smoothly transitions between low and peak loads.

Weekly saving

11060 kg
CO2

680 times
Peak Load

50
Trees

531 A
Peak current

4200 L
Fuel Savings

8400 $
Commercial benefit

A 500kva BESS example from MASSPOINT modeling for reference only. Data based on 8hrs/day, 5days/week.

Small Microgrid System Application

Stone Crusher Plant

Mining & Oil Field

Concrete Mixing Plant

Construction Tower Crane

Industrial Facilities

Mobile Power

MASSPOINT's self-developed EMS optimizes energy use through a deep integration of proactive algorithms and AI-driven technologies. It also utilizes advanced encryption and real-time analytics to ensure data security and grid stability. Furthermore, it possesses adaptive capabilities, enabling continuous operational optimization and self-upgrades, and is compatible with third-party platforms, ensuring long-term project operation.

Core Functions

Optimizes operation strategies to enhance efficiency, matching loads to high-efficiency ranges to reduce fuel costs and emissions

Responds to load changes in milliseconds, actively suppressing power impacts

Enables intelligent grid-storage synergy to improve energy utilization

Advantages of MASSPOINT EMS System

AI-Enhanced Capabilities

EMS integrates AI for differentiated intelligent optimization

AI dispatch

Generates optimal schedules based on electricity prices, weather, and load data

Millisecond response

Ensures intelligent coordination during power impact scenarios

Economic optimization

Uses AI strategies to significantly reduce operating costs

Multi-energy matching

Achieves intelligent forecasting and precise matching in complex scenarios

System Highlights

- **24/7 panoramic monitoring** real-time component tracking with data visualization
- **High-precision data sampling** supports intelligent dispatch and maintenance
- **Automated reporting** quantifies commercial returns and environmental benefits
- **Full lifecycle traceability** enables rapid issue tracing and strategy refinement

Delta Series Microgrid BESS

Pollution-Free, Visual, and Flexible Hybrid Power

Delta-400-250/482-CE
Delta-600-500/1205-CE
Delta-1600-1000/2410-CE

Delta BESS Series integrates solar PV, battery storage, and diesel generators into a green, intelligent energy solution, it reduces fuel costs, ensures reliable power delivery for off-grid sites, unstable grids, and industrial applications. It maximizes the use of renewable energy and significantly lowers electricity costs.

Seamless On-Grid/ Off-Grid Switchover

Seamless switching ensures continuous operation of sensitive loads. Equipped with VF, PQ, VSG, and other operating modes

Highly Integrated Management

Reduces post-maintenance frequency by 80%; data alarms are centralized in the masspoint cloud for remote monitoring and timely resolution

Simplified Operation and Maintenance

All critical components can be directly inspected from external indicator panels, greatly simplifying maintenance processes and reducing total lifecycle maintenance costs 30%

Black Start Capability

Autonomously restores power in the event of a complete power outage

Plug and Play

Easy installation; pre-installation and testing in production reduce local labor costs by 80%

Multi-objective Optimization Scheduling

Based on AI algorithms, dynamically optimize power trading and balance load

Model	Delta-400-250/482-CE	Delta-600-500/1205-CE	Delta-1600-1000/2410-CE
AC Parameters			
Wiring Method	3Ph+N+PE		
Rated Voltage	400Vac(380~415)		
Rated Frequency	50/60(±1) Hz		
Rated Power (kW/KVA)	250/250	500/500	1000/1000
Rated AC Current	379A	759A	1519A
Max AC Current	417A	835A	1671A
Overload Capacity	≤250kVA,Continuous ≤275kVA,10min ≤300kVA,1min	≤500kVA,Continuous ≤550kVA,10min ≤600kVA,1min	≤1000kVA,Continuous ≤1100kVA,10min ≤1200kVA,1min
Power Factor	-1~1 leading or lagging		
Transformer	Included		
STS Switching Function	Available (20ms)		
Battery Parameters			
Battery System Capacity	241~482kWh	482~1205kWh	1205~2410kWh
Battery Type	$LiFePO_4$		
Cell capacity	3.2V/314Ah		
Cell Cycle Life	≥6000 cycles(80%DOD)		
Rack Configuration	1P240S		
PV Access Parameters			
PV Array Power	400kWp	600kWp	1600kWp
PV Connection	AC Coupling	DC Coupling/AC Coupling	
Diesel Generator/Grid Access Parameters			
Wiring Method	3Ph+N+PE		
Rated Frequency	50/60(±1)Hz		
Rated AC Current	379A	759A	1519A
System Parameters			
Equipment Dimensions	2991*2438*2591mm	6058×2591×2438mm	12192*2438*2591mm
Weight	<8t	<21t	<30t
Working Temperature Range	-20°C~50°C		
Protection Level	IP54/IP55		
Relative Humidity	0~95%(non-condensing)		
Antiseptic Rank	C3		
Cooling Method	Air-cooling		
Fire Fighting	Aerosol		
Allowed Altitude	≤3000m		
Communication Method	RS485,Ethernet,CAN2.0		
Certification	IEC 62619,IEC 61000,IEC 62477,IEC 63056,AS/NZS 4777.2,NRS-097,UN 38.3		

NX10 Series Microgrid BESS

The Intelligent Path to Clean and Resilient Power

NX10-500/1446-EX
NX10-750/1446-EX
NX10-1000/1446-EX

NX10 BESS Series integrates solar PV, battery storage, and generators into a smart power system with flexible AC-coupled solar integration. It enables seamless interaction with solar, diesel generators, and the grid, forming a microgrid. The system dynamically adjusts to power demands, optimizing load response and grid stability, while reducing emissions, noise, and fuel costs for unstable grids and industrial applications.

Intelligent Energy Dispatch

Empowers flexible demand response through centralized control by upper-level dispatch platforms.

Highly Integrated Management

Reduces post-maintenance frequency by 80%; data alarms are centralized in the masspoint cloud for remote monitoring and timely resolution

Simplified Operation and Maintenance

All critical components can be directly inspected from external indicator panels, greatly simplifying maintenance processes and reducing total lifecycle maintenance costs 30%

Flexible PV Integration

Supports seamless integration with existing photovoltaic systems, significantly reducing retrofit costs.

Plug and Play

Easy installation; pre-installation and testing in production reduce local labor costs by 80%

Multi-objective Optimization Scheduling

Based on AI algorithms, dynamically optimize power trading and balance load

Model	NX10-500/1446-EX	NX10-750/1446-EX	NX10-1000/1446-EX
AC Parameters			
Wiring Method	3Ph+N+PE		
Rated Voltage	400Vac (380~415)		
Rated Frequency	50/60(±1) Hz		
Rated Power (kW/KVA)	500/500	750/750	1000/1000
Rated AC Current	721A	1082A	1443A
Max AC Current	866A	1299A	1732A
Overload Capacity	≤500kVA, Continuous ≤550kVA, 10min ≤600kVA, 1min	≤750kVA, Continuous ≤825kVA, 10min ≤900kVA, 1min	≤1000kVA, Continuous ≤1100kVA, 10min ≤1200kVA, 1min
Power Factor	-1~1 leading or lagging		
Transformer	Included		
STS	Included	Not included	
Battery parameters			
Battery System Capacity	1446kWh		
Battery Type	$LiFePO_4$		
Cell capacity	3.2V/314Ah		
Cell Cycle Life	≥6000 cycles(80%DOD)		
Rack Configuration	1P240S		
PV Access Parameters			
PV Connection	AC Coupling		
System Parameters			
Equipment Dimensions	6058×2438×2591mm		
Weight	<25t		
Working Temperature Range	-20°C~50°C		
Protection Level	IP55		
Relative Humidity	0~95%(non-condensing)		
Allowed Altitude	≤3000m		
Antiseptic Rank	C3		
Cooling Method	Air-cooling		
Fire Fighting	Aerosol		
Communication Method	RS485, Ethernet, CAN2.0		
Certification	IEC 62619, IEC 61000,IEC 62477, IEC 63056, AS/NZS 4777.2,NRS-097, UN 3536		

Hexa Series Industrial BESS

Flexible Energy for Remote, Industrial, and Urban Needs

Hexa-125/241-EX
Hexa-250/241-EX
Hexa-500/482-EX

Hexa BESS Series delivers robust, adaptable power solutions for demanding construction projects, heavy-duty industrial facilities, and off-grid sites. Engineered for harsh and dynamic conditions, it minimizes diesel reliance while lowering fuel consumption, carbon footprint, and operational noise. The system connects effortlessly with gensets or local grids, ensuring continuous supply for both large machinery and essential services. Featuring a modular architecture, quick deployment, and intelligent remote control, Hexa offers scalable, flexible energy management—providing cleaner, quieter, and smarter power to keep operations running smoothly.

Dramatic Fuel & Emission Savings
Cuts fuel consumption by 50-60%, reducing CO_2 100%

Super Impact Resistance
Withstands High-Current Surges up to 1147 A , Support 5 times overload

Extends Generator Lifespan by 80%
Reduces maintenance from monthly to just once a year, reducing 80% OPEX

Ultra-Quiet Operation
Lowers noise output < 75 dB, suitatble for noise-sensitive areas

Support Multi Power Supply
Seamlessly coordinates main grid, PV, and diesel generators

Scalable Parallel Configuration
Supports 10+ units in parallel

Model	Hexa-125/241-EX	Hexa-250/241-EX	Hexa-500/482-EX
Basic Parameters			
System Capacity	125kVA/241kWh	250kVA/241kWh	500kVA/482kWh
Wiring Method	3Ph+N+PE		
Electrical Parameters			
Peak Power(≤1min)(kVA/kW)	250/200	300/200	600/400
Over Load Power(≤10min)(kVA/kW)	175/150	275/200	550/400
Rated Power(kVA/kW)	125/125	250/200	500/400
Continuous Power (kVA/kW)	125/125	250/200	400/400
Peak Current	379A	454A	909A
Rated Current	190A	379A	757A
Rated Voltage	380/400Vac		
Rated Frequency	50/60(±2.5) Hz		
On/Off-grid Transfer Switch	Yes		
On/Off-grid Switching Time	0ms (Active), 20ms (Passive)		
Battery Parameters			
Battery System Capacity	241kWh	241kWh	482kWh
Battery Type	LiFePO4		
Max. Continuous Charging Rate	1C@25°C		
Max. Continuous Discharge Rate	1C@25°C		
Expected Cycle Life (DOD80%)	6000		
System Parameters			
Equipment Dimensions	2250 ×2438 ×2591mm		2991 ×2438 ×2591mm
Weight	6060kg	6140kg	9300kg
Protection Level	IP54/IP55		
Working Temperature Range	-20°C~50°C		
Noise Level	<75dB @ 1m		
Fire Suppression System Type	Aerosol		
Certification	IEC 62619, IEC63056,IEC 62109,IEC 62477,IEC 61000, AS 4777,UN 38.3,UN 3480, UN 3536		
Allowed Altitude	≤3000m		
Antiseptic Rank	C3		
Communication Interface	RS485, Ethernet, CAN2.0		
Cloud Service	Yes		

Hexa Mini Series Industrial BESS

Compact, Mobile Power on Demand

HexaMini-45/112-EX
HexaMini-60/112-EX
HexaMini-80/144-EX

Hexa Mini BESS Series provides compact, mobile power for temporary small to medium-scale applications. Building on proven technology, it delivers enhanced portability and a space-efficient design, making it ideal for construction, outdoor events, and remote operations.It reduces reliance on diesel, cutting fuel use, emissions, and noise while ensuring continuous power through seamless integration with generators or the grid. Featuring a modular, lightweight build for quick setup and intelligent remote management, Hexa Mini delivers clean, quiet, and agile energy to keep your operations running smoothly wherever flexible power is needed.

Dramatic Fuel & Emission Savings
Cuts fuel consumption by 50-60%, reducing CO_2 100%

Super Impact Resistance
Withstands High-Current Surges up to 1147 A , Support 5 times overload

Extends Generator Lifespan by 80%
Reduces maintenance from monthly to just once a year, reducing 80% OPEX

Ultra-Quiet Operation
Lowers noise output < 70 dB, suitatble for noise-sensitive areas

Support Multi Power Supply
Seamlessly coordinates main grid, PV, and diesel generators

Scalable Parallel Configuration
Supports 10+ units in parallel

Model	HexaMini-45/112-EX	HexaMini-60/112-EX	HexaMini-80/144-EX
Basic Parameters			
System Capacity	45kVA/112kWh	60kVA/112kWh	80kVA/144kWh
Wiring		3Ph + N + PE	
Electrical Parameters			
Peak Power (≤1min) (kVA/kW)	90/90	120/90	144/120
Over-load Power (≤10min) (kVA/kW)	67.5/67.5	90/75	120/100
Rated Power (kVA/kW)	45/45	60/60	80/80
Peak Current (A)	130	174	232
Rated Current (A)	65	87	116
Rated Voltage		380/400Vac	
Rated Frequency		50/60(±2.5) Hz	
On/Off-grid Transfer Switch		Yes	
On/Off-grid Switching Time		Oms(Active), 20ms(Passive)	
PV Array Power	40	40	40
Max. PV Input Voltage (V)	1000	1000	1000
MPPT Voltage Range (V)	350~850	350~850	350~850
Grid Input Current (A)	45	45	45
Genset Input Power (kVA)	80	80	80
Max. Continuous Load Power with Genset (kVA/kW)	100/100	120/120	160/160
Power Outlets		1*32A/3ph,2*15A/1ph,1*15A/1ph	
Battery Parameters			
Battery System Capacity	112kWh	112kWh	144kWh
Battery Type		LiFePO4	
Max. Continuous Charging Rate		1C@25°C	
Max. Continuous Discharge Rate		1C@25°C	
Expected Cycle Life (DOD80%)		6000	
System Parameters			
Equipment Dimensions	1800×1590×1100mm	1800×1590×1100mm	1800×1830×1100mm
Weight	1800kg	1800kg	2000kg
Working Temperature Range		-20°C~50°C	
Protection Level		IP55	
Noise Level		<70dB @ 1m	
Fire Suppression System Type		Aerosol	
Mounting Method		Fixed / Portable (trailer-mounted)	
Certification		IEC 62619,IEC 63056,IEC 62109, IEC 62477,IEC 61000, AS 4777, UN 38.3, UN 3480	
Allowed Altitude		≤3000m	
Antiseptic Rank		C3	
Communication Interface		RS485, Ethernet, CAN2.0	
Cloud service		Yes	

Off-Grid Microgrid BESS System
Mining Area

Background:

Unstable power supply.
Equipment demands unmet.
High maintenance burden.

Configuration:

2MW/4MWh BESS ,
1MVA DG, 2400kWp PV

Results

Diesel consumption reduced by 70%; carbon emissions decreased by 450 tons; 0 downtime achieved; operational efficiency improved by 25%+.

Off-Grid Microgrid BESS System
Island

Background:

No grid access. Untapped solar potential.
Daily life disrupted. Economy stalled.

Configuration:

3MW/6MWh BESS , 8.6MVA DG,
4000kWp PV system

Results

100% year-round operation. 24/7 stable power. Sustainable energy secured. Tourism boosted. Economy grew 125%. 30,000+ residents lives improved.

Hybrid BESS System for Construction Site

Background:

Construction in dense residential areas faced noise complaints, pollution penalties, frequent equipment failures, and reduced productivity

Configuration:

1000kW/1290kWh BESS,
600kVA DG, 1200kWp PV system

Results:

Diesel consumption cut 50%. 12 surges/hour handled.
Cut maintenance by 80%

Ongrid mode BESS System for Industry

Background:

High electricity consumption from continuous equipment operation and faced volatile pricing, led to soaring energy bills

Configuration:

1000kW/1290kWh BESS, 1200kWp PV system

Results:

Arbitrage strategies implemented. Uninterrupted production maintained. Energy costs reduced 40%. Peak demand charges minimized. Grid dependence decreased 60%. ESG goals accelerated

BESS for Data Center Construction Site

Background:

High fuel costs at remote site. Significant emissions from continuous generator use

Configuration:

80kVA/129kWh BESS · 180kVA DG

Results:

Generator runtime cut 87.5%. Fuel use reduced 87% (3,528 gal/month). Carbon emissions down 88%. Monthly net savings: $13,013

Mission

Building up intelligent
and green energy systems

Vision

Let people use energy freely

Values

Co-create

We view our clients as co-innovators. Together, we tackle energy challenges and set new industry standards.

Co-evolve

We pursue synchronous growth with clients and partners. We empower each other in capabilities and vision, advancing together.

Co-prosper

We are committed to building an interdependent industrial community. We foster mutual reliance and shared prosperity within a sustainable future.