

Energy Storage Solution

MEGMEET is a global leader in advanced power modules, delivering comprehensive energy storage solutions supported by strong research and design capabilities, robust supply chain platforms, and lean production management.





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About Us

MEGMEET is a \$1.3B global power and energy company specializing in high-efficiency power solutions for datacenters, eMobility, healthcare, industrial automation and renewable energy. With R&D, manufacturing facilities and global operations across North America, India, Thailand, China and Germany, MEGMEET is Engineered to Empower™ the future of AI, Industrial, and Mobility Markets.

**27.7%**

Revenue CAGR
2015-2025

**10**

R&D Centers

**9**

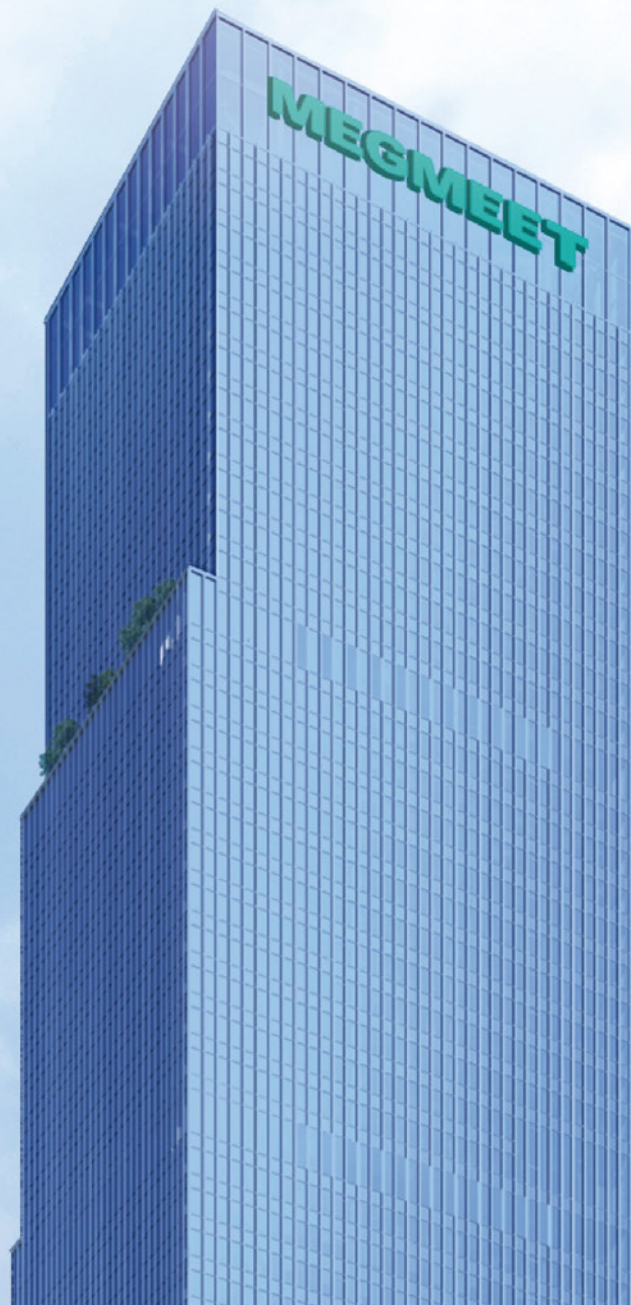
Manufacturing
Centers

**32.6%**

R&D Staff

**9500+**

Total Employees



125 kW PCS (Air Cooling)



Product Advantages



Flexibility on Grid

1.1x full-voltage-range operation
Long-term operation at 45°C



Isolated Air Duct Design

Suitable for various C&I application environments



Parallel Connection and Modular Design

Real-time grid harmonic monitoring
Stable operation under high-harmonic grid conditions



Multiple Level Protection

Comprehensive AC/DC protection
Ensures system safety



New Modulation Technique

Carefully selected components and rigorous testing
Long lifetime design



Support for Unbalanced Loads

Suitable for applications such as unbalanced loads and grid forming

Product Parameters

DC Side Parameters	
Number of Input Channels	1
Voltage Range / Rated DC Voltage	650 to 950 V
Maximum DC Current	238 A
AC Side Parameters	
Grid Voltage	400 (-15% to 10%) VAC
Off-grid Voltage	400 (± 10% adjustable)
Rated Capacity	125 kW
Rated Current	180.4 A
Continuous Overload Current	198.5 A
Maximum Current	216.5 A
AC Frequency	50 / 60 Hz
Total Harmonic Distortion Rate of Current / Total Harmonic Distortion Rate of Voltage	THDI ≤ 3%
Power Factor	PF 0.99 / -1 to 1
DC Component	0.2%
Environmental Condition Parameters	
Allowable Relative Humidity	0 to 95% Rh (no condensation)
Allowable Altitude	4000 m
Operating Ambient Temperature	-35 °C to +60 °C
Storage Temperature	-40 °C to +70 °C
Project Parameters	
Wiring	3L3P / 3L4P (IT / TT / TN-S)
Grid Form	IT / TN
Maximum Charging Conversion Efficiency	99%
Maximum Discharge Conversion Efficiency	99%
Cooling Method	Intelligent air cooling
IP Grade	IP20
Corrosion Resistance	C3
Noise Level	< 75 dB
Overvoltage Level	DC II, AC III
Dimensions (W x H x D)	Standard Version: 520 x 270 x 680 (mm) Integrated High-Voltage Box Version: 520 x 250 x 680 (mm)
Weight	Standard Version: 70 kg Integrated High-Voltage Box Version: 80 kg
DC Surge Protection	CLASS IV
AC Surge Protection	CLASS IV
Communication Interface	RS485 / Ethernet / CAN / WIFI
Communication Protocol	Modbus TCP / RTU, CAN2.0, IEEE 802.22b / g / n

215 kW PCS (Air Cooling)



Product Advantages



Integrated High-Voltage Box
Reduced installation space



Integrated Cluster-Level Battery Management
High battery utilization



IP65 Protection
Supports vertical and horizontal installation



Up to 12 Units in Parallel

Product Parameters

DC Side Parameters	
Voltage Range / Rated DC Voltage	1000 to 1500 V / 1331 V
Maximum DC Current	221.5 A
AC Side Parameters	
Grid Voltage	690 (-10% to 10%) VAC
Rated Capacity	215 kW
Rated Current	180 A
Continuous Overload Current	198 A
Maximum Current	216 A
AC Frequency	50 Hz (± 5% adjustable)
Total Harmonic Distortion Rate of Current / Total Harmonic Distortion Rate of Voltage	THDI ≤ 3%
Power Factor	PF 0.99 / -1 to 1
DC Component	0.50%
Environmental Condition Parameters	
Allowable Relative Humidity	0 to 95% Rh (no condensation)
Allowable Altitude	4000 m
Operating Ambient Temperature	-35 °C to +60°C
Storage Temperature	-40 °C to +70°C
Project Parameters	
Fully Loaded Charging Conversion Efficiency	98.50%
Fully Loaded Discharge Conversion Efficiency	98.30%
Cooling Method	Intelligent liquid cooling
IP Grade	IP65
Corrosion Resistance	C4
Noise Level	< 75 dB
Overvoltage Level	DC II, AC III
Dimensions (W x H x D)	800 x 840 x 275 (mm)
Weight	95 kg
DC Surge Protection	CLASS IV
AC Surge Protection	CLASS IV
Communication Interface	RS485 / Ethernet / CAN
Communication Protocol	Modbus TCP / RTU, CAN2.0

215 kW PCS (Liquid Cooling)



Product Advantages



Integrated High-Voltage Box
Reduced installation space



Integrated Cluster-Level Battery Management
High battery utilization



IP65 Protection
Supports vertical and horizontal installation



Up to 12 Units in Parallel

Product Parameters

DC Side Parameters	
Voltage Range / Rated DC Voltage	1000 to 1500 V / 1331 V
Maximum DC Current	221.5 A
AC Side Parameters	
Grid Voltage	690 (-10% to 10%) VAC
Rated Capacity	215 kW
Rated Current	180 A
Continuous Overload Current	198 A
Maximum Current	216 A
AC Frequency	50 Hz (± 5% adjustable)
Total Harmonic Distortion Rate of Current / Total Harmonic Distortion Rate of Voltage	THDI ≤ 3%
Power Factor	PF 0.99 / -1 to 1
DC Component	0.50%
Environmental Condition Parameters	
Allowable Relative Humidity	0 to 95% Rh (no condensation)
Allowable Altitude	4000 m
Operating Ambient Temperature	-35 °C to +60°C
Storage Temperature	-40 °C to +70°C
Project Parameters	
Fully Loaded Charging Conversion Efficiency	98.50%
Fully Loaded Discharge Conversion Efficiency	98.30%
Cooling Method	Intelligent liquid cooling
IP Grade	IP65
Corrosion Resistance	C3
Noise Level	< 75 dB
Overvoltage Level	DC II, AC III
Dimensions (W x H x D)	760 x 220 x 680 (mm)
Weight	64 kg
DC Surge Protection	CLASS IV
AC Surge Protection	CLASS IV
Communication Interface	RS485 / Ethernet / CAN
Communication Protocol	Modbus TCP / RTU, CAN2.0

430 kW PCS (Liquid Cooling)



Product Advantages



High Efficiency & Stability

High Battery Utilization, with support for inertia response, primary frequency regulation, VSG, and black start.



Safe & Reliable

Liquid cooling, IP65 protection, wide-temperature operation, and 1.1x long-term overload capability.



Intelligent Monitoring

Supports multiple communication protocols for visualized monitoring.



Flexible Configuration

Cluster-level management, compatible with 587+Ah cells and 20-ft containers, with support for parallel connection of 16 or more units.

Product Parameters

DC Side Parameters	
Voltage Range / Rated DC Voltage	1000 to 1500 V / 1331 V
Maximum DC Current	477 A
AC Side Parameters	
Grid Voltage	690 (-10% to 10%) VAC
Rated Capacity	430 kW
Rated Current	360 A
Continuous Overload Current	396 A
Maximum Current	432 A
AC Frequency	50 Hz ± 5% (Adjustable)
Current Total Harmonic Distortion (THD)	THDI ≤ 3%
Power Factor	PF 0.99 / -1 to 1
DC Component	0.50%
Environmental Parameters	
Allowable Relative Humidity	0 to 95% RH (Non-condensing)
Allowable Altitude	4000 m
Operating Ambient Temperature	-35 °C to +60°C
Storage Temperature	-40 °C to +70°C
General Parameters	
Full-Load Charging Conversion Efficiency	98.40%
Full-Load Discharging Conversion Efficiency	98.10%
Cooling Method	Intelligent liquid cooling
IP Rating	IP65
Corrosion Resistance	C3
Noise Level	< 75 dB
Overvoltage Category	DC II, AC III
Dimensions (W x H x D)	1030 x 220 x 800 (mm)
Weight	120 kg
DC Surge Protection	CLASS IV
AC Surge Protection	CLASS IV
Communication Interface	RS485 / Ethernet / CAN
Communication Protocol	Modbus TCP / RTU, CAN2.0

6.25 MW Liquid Cooling String Inverter and Step-up Integrated Container



Product Advantages



High Efficiency & Intelligence

String-based design; maximum single-module efficiency reaches up to 99%; features precise system data monitoring.



Safety & Reliability

Intelligent liquid cooling system; multi-level power distribution protection ensures comprehensive system safety; PCS modules feature an IP66 protection rating, while the complete unit holds an Ip54 rating.



High Integration

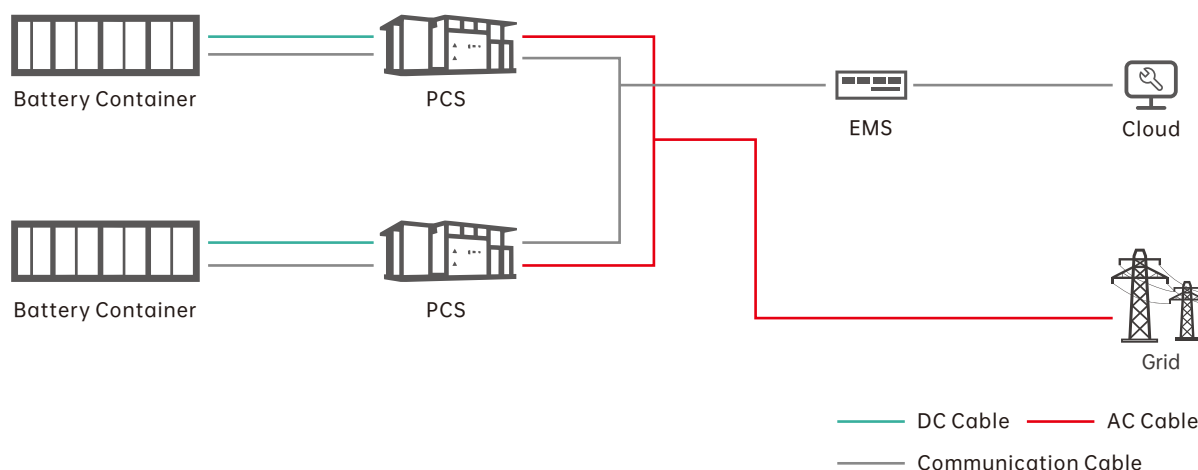
Integrated all-in-one design; housed within a standard 20-foot container.



Grid Adaptability

Supports the IEC 61850 protocol with ms response capabilities; supports functions such as High/Low Voltage Ride-Through (HVRT/LVRT), frequency and voltage regulation, black start, and grid-forming support.

Product Application



Product Parameters

Product Parameter	
Full-Load Efficiency	≥ 97.5%
Charge/Discharge Switching Time	30 ms
Operating Ambient Temperature	-35°C to +60°C; derated operation above +50°C; capable of startup and operation at -40°C
Allowable Relative Humidity	0 to 95% (non-condensing)
Altitude	Below 2000 m; customized solutions available for altitudes above 2000 m
Salt Spray Requirements	C3 (Standard); C4 and C5 (Optional)
Dimensions (L x W x H)	6058 × 2438 × 2896 (mm)
Weight	25 t
IP Protection Rating	IP54
Noise Level	75 dB
Cooling Method	Intelligent Liquid Cooling
Communication Interface	RS485 / CAN / Ethernet, etc.; supports A / B network redundancy
Communication Protocol	IEC61850 / IEC104 / Modbus-TCP / Modbus-RTU / etc.
Grid Support Capabilities	LVRT / HVRT (Low / High Voltage Ride-Through), Frequency & Voltage Regulation, Black Start, Grid-Forming Support
Compliance Standards	IEC62271-202 / EN50588-1 / IEC60076 / IEC62271-200 / IEC61439-1 / GB/T34120 / GB/T34133 / GB/T36547 / GB/T36548
PCS AC-Side Parameters	
Rated Power	6250 kW
Maximum Power	6875 kW
Rated Voltage	690 VAC
Isolation Method	Transformer Isolation
AC Connection Type	Three-Phase / Three-Wire
PCS DC-Side Parameters	
Operating Voltage Range	1000 to 1500 VDC
Rated DC Current	16 × 323 A
Maximum Rated DC Current	16 × 438 A
Number of DC Input Circuits	16
Grid-Tied Operation Parameters	
Rated Grid Voltage	35 kV
Grid Frequency	50 Hz / 60 Hz
AC Total Harmonic Distortion (THD)	< 3%
Power Factor (PF)	0.99 / -1 to 1
Off-Grid Operation Parameters	
Rated Grid Voltage	35 kV
Grid Frequency	50 Hz / 60 Hz
AC Total Harmonic Distortion (THD)	< 3%
DC Voltage Component	< 0.5% Un
Unbalanced Load Capability	100%
Transformer Parameters	
Type	Dry-type Double-winding Transformer
Rated Capacity	6250 kVA
Rated Voltage	37 ±2 x 2.5% kV / 0.690 kV
Grid Frequency	50 Hz / 60 Hz
Overload Capability	1.1x for long-term, 1.2x for 1-minute intervals.
Vector Group	DY11

Hybrid BESS 50 kW / 100 kWh



Product Advantages



High efficiency

intelligent thermal management and efficient insulation to improve system efficiency



High energy

100 kWh per cabinet, supports 4-way DC parallel operation and 10-way AC parallel operation, and can be expanded to a maximum of 4 Mwh



High integration

integrated design, all in one



High safety

all-in-one composite fire detection and efficient aerosol fire extinguishing

Product Parameters

AC Input (On-grid)	
Rated Input Power	100 kW
Rated Input Current	144 A
Max. Input Power @ bypass mode	138 kW
Max. Input Current @ bypass mode	200 A
Rated AC Voltage	380 / 400 / 415 V, 3P+N+PE
Rated Output Frequency	50 / 60 Hz
AC Output (On-grid)	
Rated AC Power	50 kW
Rated Output Current @ 230 V	72.5 A
Max. Apparent Power	55 kVA
Max. Output Current @ 230 V	79.8 A
Rated AC Voltage	380 / 400 V, 3P+N+PE
Rated Output Frequency	50 / 60 Hz
Power Factor	-1 to 1
AC Input (Generator)	
Rated Input Power	100 kW
Rated Input current	144 A
Max. Input Power @ bypass mode	138 kW
Max. Input Current @ bypass mode	200 A
Rated Input Voltage	380 / 400 V, 3P+N+PE
Rated Input Frequency	50 / 60 Hz
AC Output (Back-up)	
Rated Output Apparent Power	55 kVA
Max. Output Current @ 230 V	79.8 A
Peak Output Apparent Power	75 kVA, 5 s
Peak Output Current @ 230 V	108.5 A, 5 s
Rated AC Voltage	380 / 400 V, 3P+N+PE
Rated Output Frequency	50 / 60 Hz
Battery Parameters	
Battery Type	LiFePO ₄
Rated Capacity	314 A
Rated Energy	104.5 kWh
Max. Charging / Discharging Power	50 kW
Max. Charging / Discharging Current	150 A
MPPT Input	
Max. PV Array Power @ STC	100 kWp
MPPT Voltage Range	180 to 850 VDC
Rated DC Voltage	600 VDC
Starting Voltage	200 VDC
Number of MPPT	6
Max. DC Input Current per MPPT	45 A
Number of Strings per MPPT	2
General Parameters	
Communication Protocol	LAN / 4G
Dimensions (W x H x D)	1366 x 1400 x 1900 (mm)
Range of Working Temperature	-30 °C to +55 °C (> +45°C derated)
Relative Humidity	5 to 95% Rh (no condensation)
Altitude	≤ 3000 m (> 2000 m derated)
Protection Level	IP55 (equipment compartment), IP66 (inverter)

270 kW / 237 kWh Liquid Cooling Energy Storage System



Product Advantages



Flexible Application

Multifunctional dispatch,
virtual power plants power
demand-side response
Peak-valley trading profit



Flexible Expansion

Supports parallel use of
multiple machines
Hierarchical protection of
the system
Support elastic expansion



Quickly Put into Operation

Modular cabinet design
Integrated transportation
Easy installation and
maintenance



Intelligent Control

Refined thermal management,
PACK temp difference 3 °C
Multi-level control technology



High Security

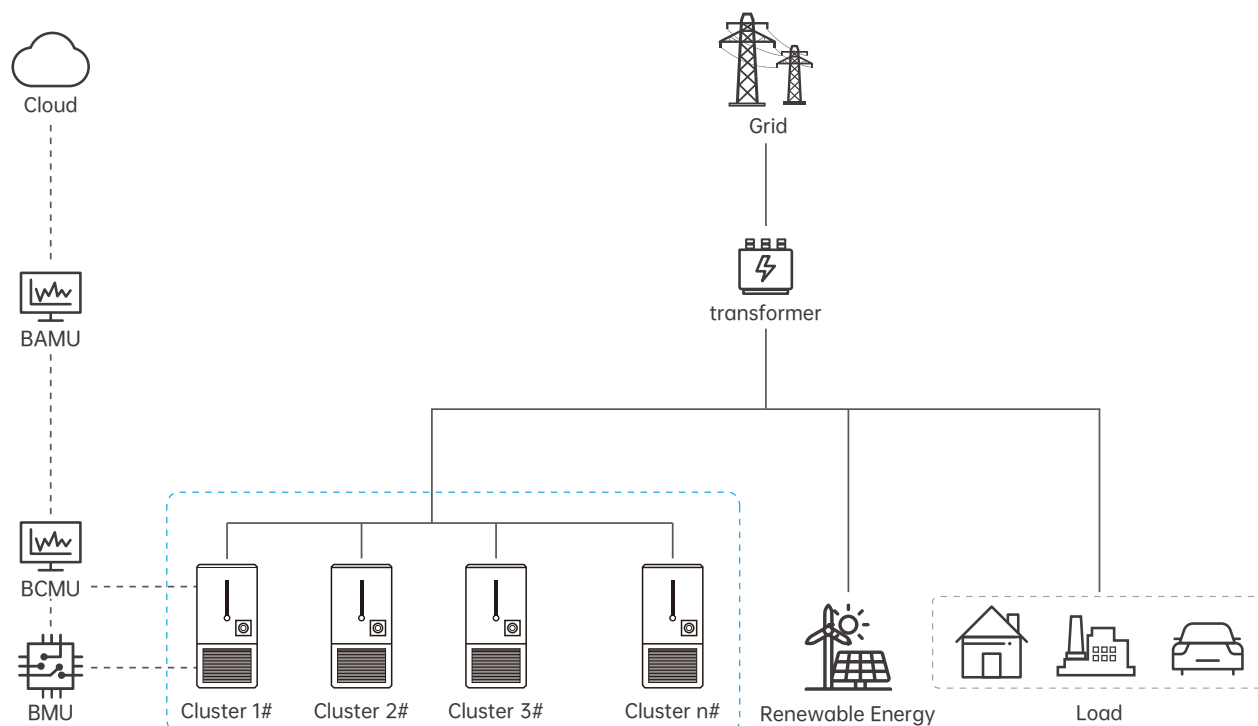
LFP cell
Multi-level fire protection
Long lifetime



High Adaptability

For source-grid or
customer-side, for all
loads or AC generators

Product Application



Rated Output Power	270 kW
Maximum Output Power	300 kW @ 15 min
Rated Operating Voltage	400 VAC / 3W+N+PE
Rated Operating Current	389 A
Maximum Operating Current	433 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	285 Ah
Battery Cycle Life	≥ 8000 cycles @ 25°C, 0.5C, 70% SOH
String Mode	1P260S
Rated Power	237 kWh
Rated Battery Voltage	832 V
Operating Voltage Range	702 to 949 V
Thermal Management	Liquid cooling
Fire Protection	Aerosol + Water Fire Suppression Interface
Communication Interface	4G / LAN / CAN
Communication Protocol	Modbus TCP / MQTT
Range of Working Temperature	-30 °C to +50 °C
Relative Humidity	5 to 95% Rh (no condensation)
Altitude	3000 m (> 2000 m derated)
Protection Level	IP55
Weight	≤ 3500 kg
Dimensions (W x H x D)	1450 x 2300 x 1400 (mm)

125 kW / 261 kWh Liquid Cooling Energy Storage System (CE Version)



Product Advantages



Flexible Application

Multi-energy dispatch
Virtual power plant, power demand side response
Electricity spot trading, peak and valley arbitrage



Elastic Expansion

Supports parallel connection of multiple equipments
System hierarchical linkage protection
Support elastic expansion and provide multiple solutions



Quickly Put into Operation

Cabinet modular design
Convenient maintenance and installation, integrated transportation
Simple on-site construction



Intelligent Control

Multi-level control architecture
Support cloud technology
Intelligent temperature control



High Security

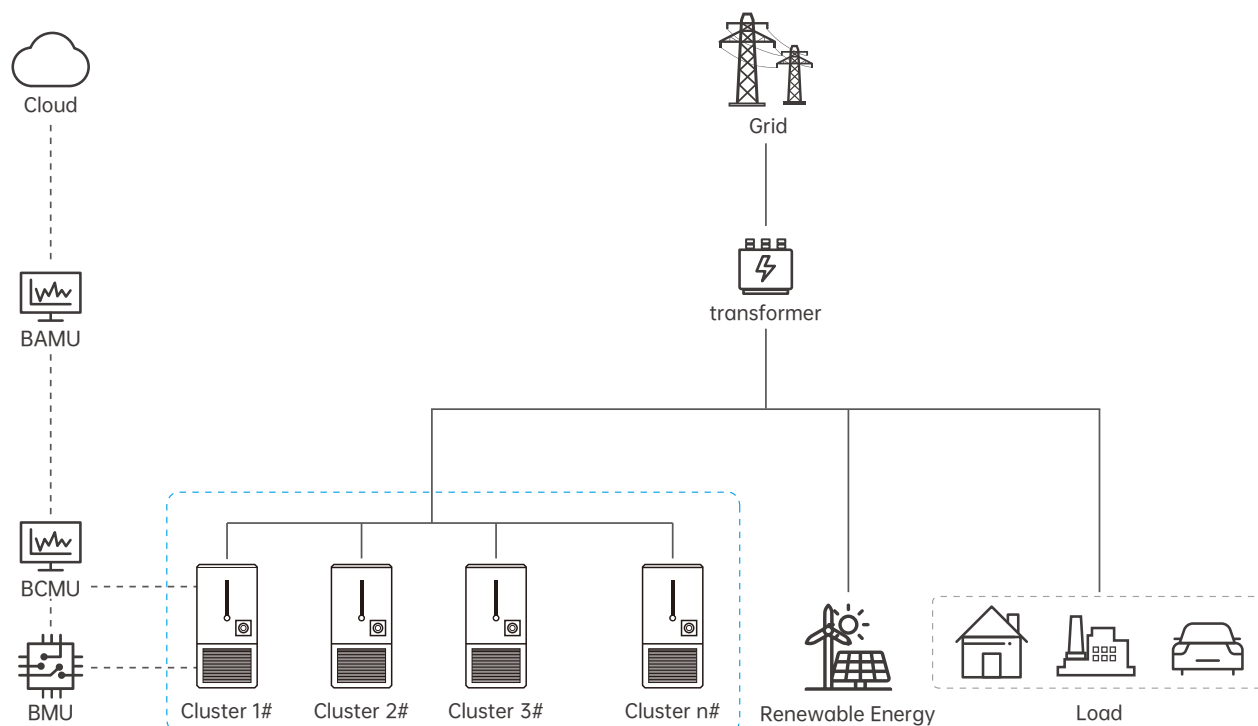
LFP cell
High safety, long life



High Adaptability

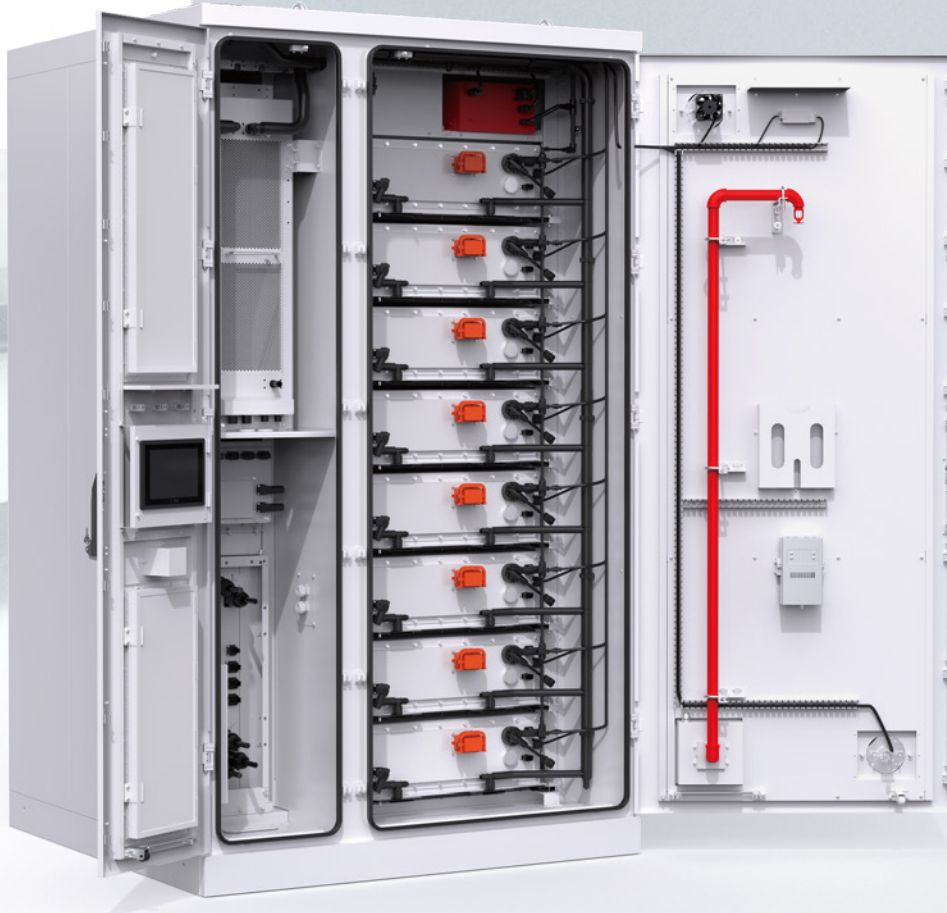
Suitable for all loads or AC power generation equipment

Product Application



Rated Output Power	125 kW
Maximum Output Power	137.5 kW
Rated Operating Voltage	400 VAC / 3W+N+PE
Rated Operating Current	180 A
Maximum Operating Current	198 A
Rated Frequency	50 / 60 Hz
Operating Mode	on-gride / off-gride
Cell Type	Lithium Iron Phosphate (LFP) 314 Ah
Battery Cycle Life	> 8000 cycles, 70% SOH
String Mode	1P260S
Rated Power	261 kWh
Rated Battery Voltage	832 V
Operating Voltage Range	702 to 949 V
Thermal Management	Liquid cooling
Fire Protection	Hydrogen & smoke detection, fire protection, smoke sensing, temperature sensing, combustible gas detection
Communication Interface	4G / LAN / CAN
Communication Protocol	MQTT / Modbus / IEC61850
Range of Working Temperature	-20 °C to +50 °C
Relative Humidity	5 to 95% Rh (no condensation)
Altitude	≤ 3000 m (> 2000 m derated)
Protection Level	IP55
Weight	≤ 3000 kg
Dimensions (W x H x D)	1100 x 2320 x 1450 (mm)

215 kW / 418 kWh Liquid Cooling Energy Storage System



Product Advantages



Intelligent Control

Refined thermal management,
PACK temp difference $\leq 3^{\circ}\text{C}$
Multi-level control technology



High Security

LFP cell
Multi-level fire protection
Long lifetime



Flexible Application

Multifunctional dispatch,
virtual power plants power
demand-side response
Peak-valley trading profit



Flexible Expansion

Supports parallel use of
multiple machines
Hierarchical protection of
the system



Quickly Put into Operation

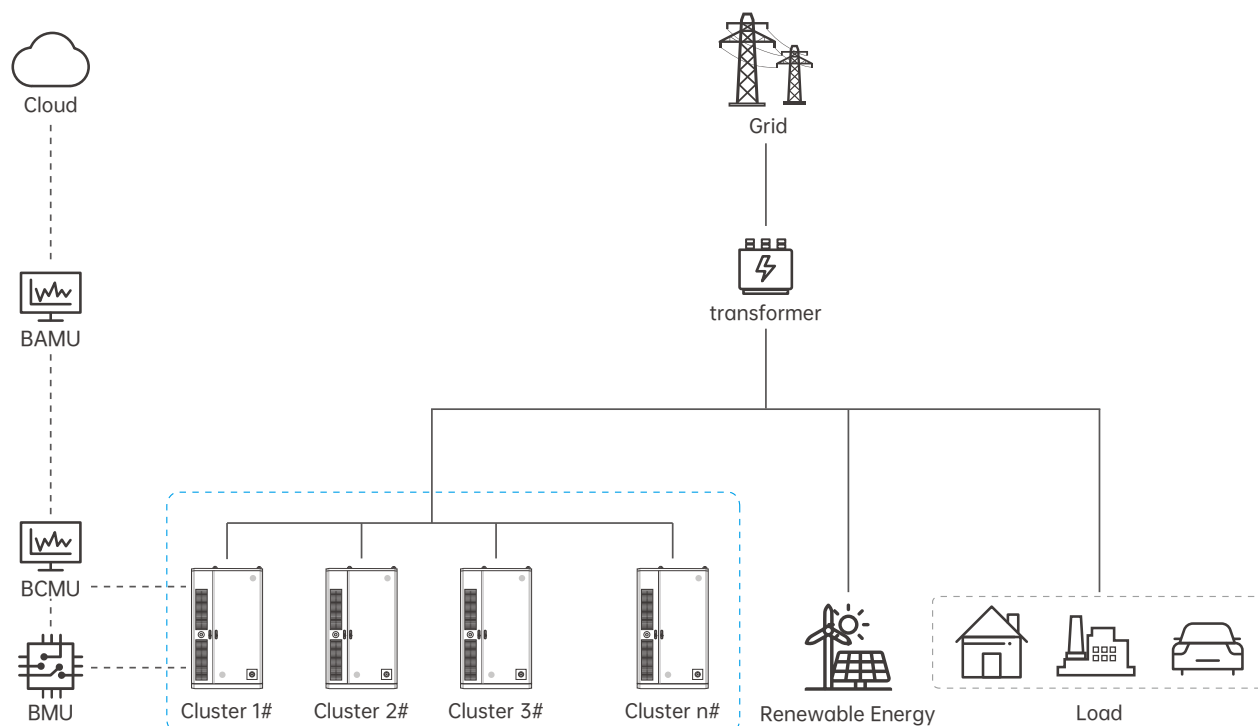
Modular cabinet design
Integrated transportation
Easy installation and
maintenance



High Adaptability

For source-grid or
customer-side, for all
loads or AC generators

Product Application



Rated Output Power	215 kW
Maximum Output Power	230 kW
Rated Operating Voltage	690 VAC / 3W+PE
Rated Operating Current	175 A
Maximum Operating Current	207 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	314 Ah
Battery Cycle Life	> 8000 cycles, 70% SOH
String Mode	1P416S
Rated Power	418 kWh
Rated Battery Voltage	1331 V
Operating Voltage Range	1123.2 to 1497.6 V
Thermal Management	Liquid cooling
Fire Protection	PACK-level gas detection system + DN65 fire protection interface
Communication Interface	4G / LAN / CAN
Communication Protocol	MQTT / Modbus / IEC61850 / IEC104
Range of Working Temperature	-30 °C to +55 °C
Relative Humidity	5 to 95% Rh (no condensation)
Altitude	≤ 3000 m (> 2000 m derated)
Protection Level	IP55
Weight	≤ 4500 kg
Dimensions (W x H x D)	1500 x 2450 x 1500 (mm)

ESS and EV Charger System



Product Advantages



Efficient Energy Supplement

Supports multiple charging piles
Compensates for insufficient grid capacity



PV and ESS Synergy

Reduces grid expansion pressure
Environmentally friendly and cost-effective



High-Power Charging Assurance

ESS supplies power to the charging station
Meets 240 kW fast-charging demand



Intelligent Energy Management

Dynamic power distribution for higher returns
Reduces operating costs



Flexible On-Grid Installation

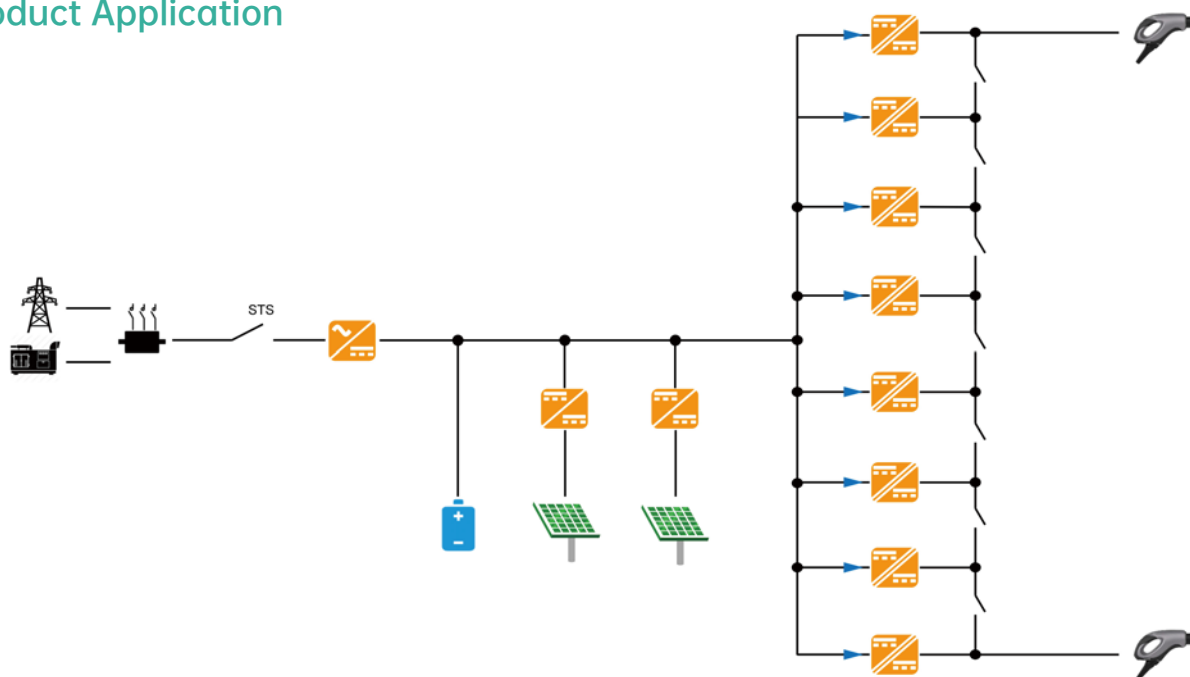
Integrated ESS and charging design
ESS and charging functions can also be used separately



Emergency Backup Power Supply

Provides stable power during outages
Ensures uninterrupted power supply

Product Application



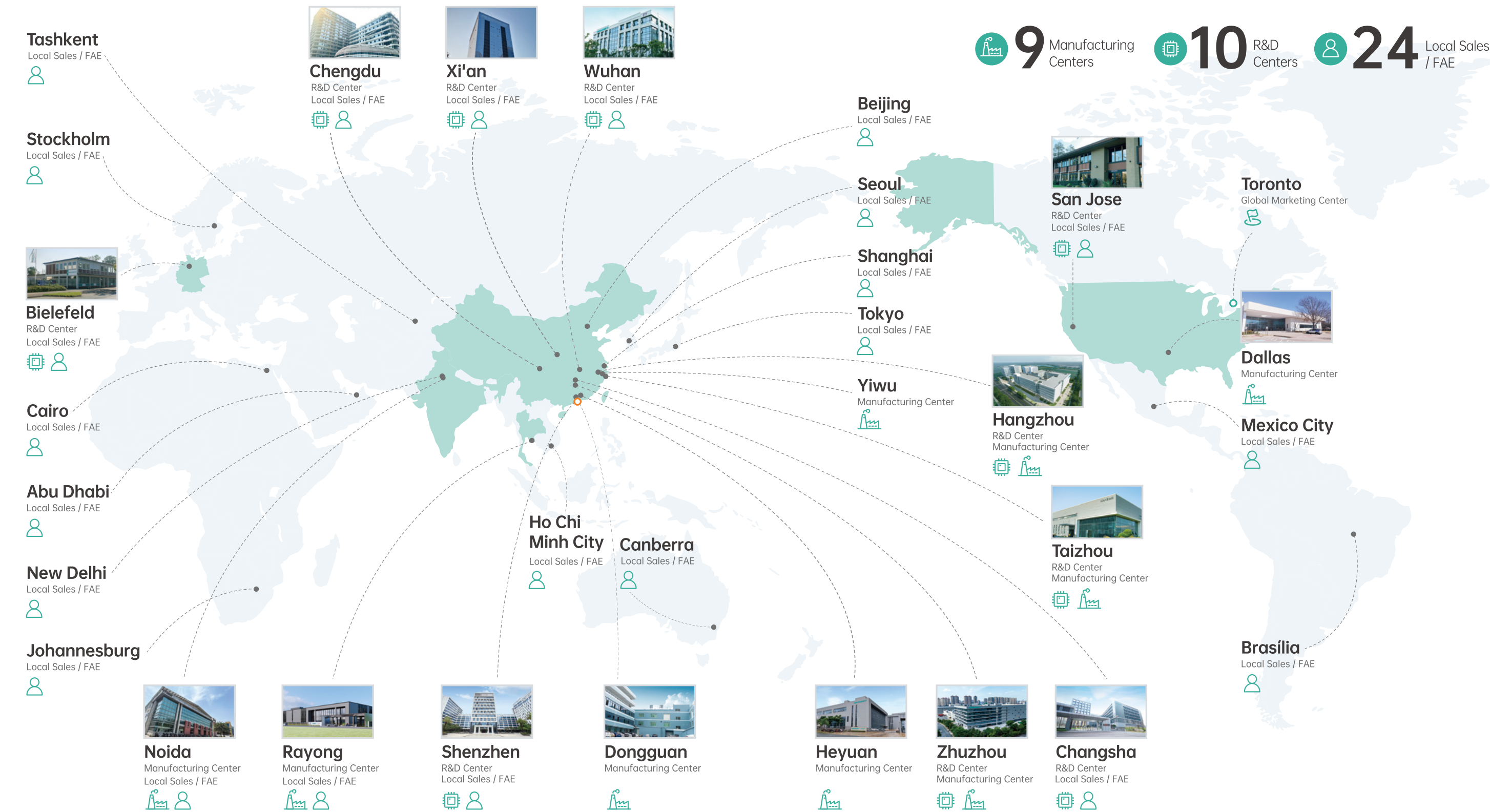
Product Parameters

Rated AC Power	125 kW
Rated AC Voltage	380 VAC
Rated Frequency	50 Hz
Power Factor	0.99
AC Input Configuration	TN / TT
Charging Output Power	240 kW
Charging Voltage Range	300 to 1000 VDC
PV Input	50 kW * 2
Maximum Voltage	620 VDC
Cell Type	LFP
Cell Capacity	314 Ah, square aluminum-shell cell
Battery Cycle Life	> 8000 cycles, 70% SOH
String Configuration	1P260S
Rated Power	261 kWh
Rated Battery Voltage	650 to 950 VDC
Operating Voltage Range	702 to 936 VDC
Thermal Management	Battery liquid cooling; module air cooling
Fire Protection	Aerosol
Communication Interface	ETHERNET / LAN / CAN
Operating Ambient Temperature	-25 °C to +50 °C
Relative Humidity	0 to 95%
Altitude	< 2000 m
Cabinet Protection Level	Battery cabinet IP55; equipment cabinet IP54
Battery Pack Protection Level	IP67
Weight (ESS / Charging Cabinet)	≤ 2500 kg
Dimensions (W x H x D)	1000 x 2400 x 1350 (ESS Cabinet) / 900 x 2400 x 1350 (Charging Cabinet) (mm)

Global Infrastructure

MEGMEET's global footprint includes advanced R&D centers, integrated manufacturing, and regional offices enabling fast response, localized support, and efficient deployment worldwide.

MEGMEET's international engineering network supports close customer collaboration, rapid validation, and region-specific adaptation to deliver reliable, high-performance solutions globally.



Power Solutions

- ☐ Telecom Power ☐ Medical Power ☐ Display Power ☐ Enclosed Power ☐ LED Power
- ☐ Laser Power ☐ OA Power ☐ Electric Power ☐ Datacenter and Networking Power Solutions
- ☒ Solar & BESS & EV Charging Solution ☐ Bi-directional Inverters for Portable Power

Industrial Automation

- ☐ Servo System ☐ Control System ☐ Elevator Controller ☐ Linear Motors ☐ IoT Solution ☐ Encoder
- ☐ Variable Frequency Drive ☐ Internal Gear Pump

eMobility & EV Infrastructure

- ☐ Integrated Charging System (OBC & DC-DC) ☐ Power Electronic Unit (2-in-1, 3-in-1)
- ☐ E-Compressor ☐ TV EDU ☐ Inverter ☐ Construction Machinery Controller
- ☐ Intelligent Active Hydraulic Suspension (i-AHS) ☐ Railway A/C Controller ☐ Railway VFD
- ☐ Thermal Mgmt. System ☐ Light Electric Vehicle Motors, Inverters, and Charging System

Intelligent Equipment

- ☐ Intelligent Welding ☐ Electric Submersible-Progressing Cavity Pump
- ☐ Industrial Microwave ☐ Polysilicon Water Quenching Equipment
- ☐ Automatic Car Washing Machine ☐ Intelligent Lifting Devices

Consumer and Lifestyle Electronics

- ☐ Residential A/C Controller ☐ Commercial A/C Controller ☐ Heat Pump Controller
- ☐ Vehicle A/C Controller ☐ Solar A/C Controller ☐ Mini Compressor Controller
- ☐ Refrigerator Controller ☐ Washer/Dryer Controller ☐ Residential Microwave
- ☐ Industrial Microwave ☐ Smart Bidet ☐ RF Thawing System
- ☐ FFC ☐ FPC ☐ Coaxial Cable ☐ CCS ☐ Litz Wire ☐ Peek Wire

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Version: 06012026

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