

Energy Storage Solution

MEGMEET focuses on ESS and provides a one-stop solution for OEM, ODM, SKD, Non-Brand Standard energy storage system products with a powerful research and design platform, excellent supply chain platform, and lean production management platform.

PV & ESS & EV Charging Solution

- PCS

BMS

EMS
- Inverter

EV Charger

CCU / TCU / PLC
- Air Conditioner

ESS
- Battery Pack

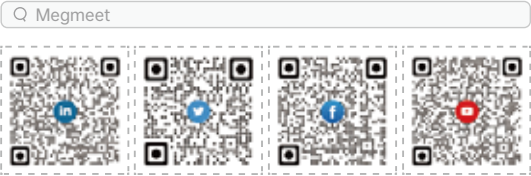
Charging Module
- CCS

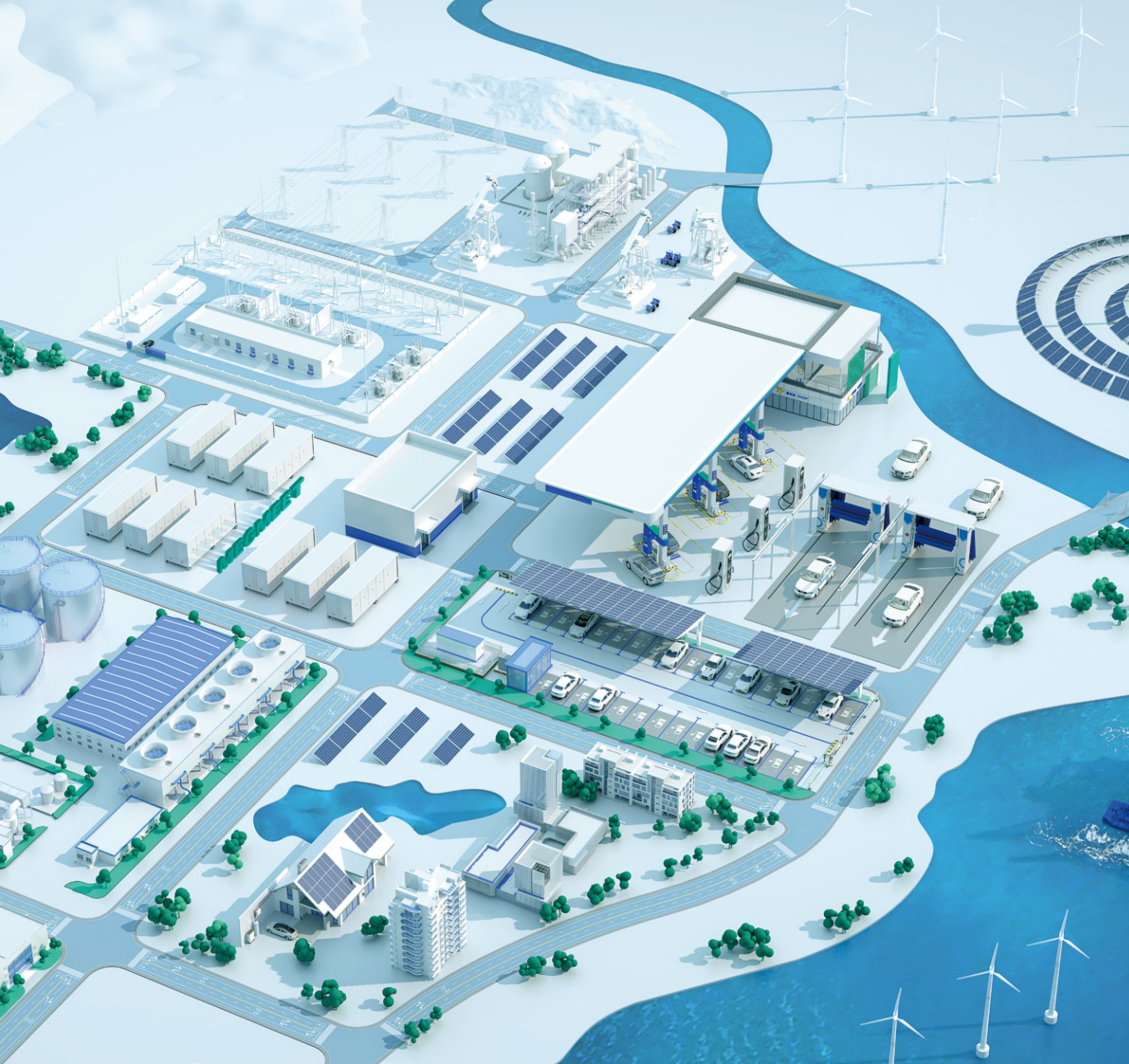
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125 kW PCS (Air Cooling)



Product Advantages



Flexibility on Grid
Wide voltage range



Parallel Connection and Modular Design
Grid forming design



Multiple Level Protection
High security design



New Modulation Technique
Long lifetime and high reliability design

Product Parameters

DC Side Parameters	
Number of Input Channels	1
Voltage Range / Rated DC Voltage	550 to 950 V / 768 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 Hz (± 5% adjustable)
Total Harmonic Distortion Rate of Current / Total Harmonic Distortion Rate of Voltage	THDI ≤ 3% / ≤ 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	-25 °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)	520 x 270 x 680 (mm)
Weight	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

125 kW PCS (Air Cooling) High Voltage Box Integrated



Product Advantages



Flexibility on Grid
Wide voltage range



Parallel Connection and Modular Design
Grid forming design



Multiple Level Protection
High security design



New Modulation Technique
Long lifetime and high reliability design

Product Parameters

DC Side Parameters	
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AC Side Parameters	
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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 Hz (± 5% adjustable)
Total Harmonic Distortion Rate of Current / Total Harmonic Distortion Rate of Voltage	THDI ≤ 3% / ≤ 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	-25 °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	IP55
Corrosion Resistance	C3
Noise Level	< 75 dB
Overvoltage Level	DC II, AC III
Dimensions (W x H x D)	520 x 250 x 880 (mm)
Weight	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 (Liquid Cooling)



Product Advantages



Flexibility on Grid
Wide voltage range



Parallel Connection and Modular Design
Grid forming design



Multiple Level Protection
High security design



New Modulation Technique
Long lifetime and high reliability design

Product Parameters

DC Side Parameters	
Number of Input Channels	1
Voltage Range / Rated DC Voltage	1000 to 1500 V / 1331 V
Maximum DC Current	221.5 A
AC Side Parameters	
Grid Voltage	690 (-15% to 10%) VAC
Off-grid Voltage	690 (± 10% adjustable)
Rated Capacity	125 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% / ≤ 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	-25 °C to +60°C
Storage Temperature	-40 °C to +70°C
Project Parameters	
Wiring	3L3P
Grid Form	IT / TN
Maximum Charging Conversion Efficiency	97.80%
Maximum Discharge Conversion Efficiency	98.80%
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)	600 x 220 x 700 (mm)
Weight	70 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

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

DC Input	
Max. PV Array Power @ STC	100 kWp
Max. DC Voltage	1000 V
MPPT Voltage Range	180 to 850 V
Max. DC Input Current	6 * 45 A
Number of MPPT	6
Number of Strings per MPPT	2
Battery Parameters	
Battery Type	LiFePO ₄
Rated Energy	104.5 kWh
Max. Charging / Discharging Current	150 A / 150 A
AC Output (On-grid)	
Rated AC Power	50 kW
Max. Apparent Power	55 kVA
Rated Output Current @ 230 V	72.5 A
Max. Output Current @ 230 V	79.8 A
Rated AC Voltage	3+N+PE, 380 / 400 A
Rated Output Frequency / Range	50 Hz, 60 Hz / 45 to 55 Hz, 55 to 65 Hz
AC Input (On-grid)	
Rated AC Voltage / Range	3+N+PE, 380 V / 400 V
Rated Output Power	215 kW
Maximum Output Power	237 kW
Rated Operating Voltage	690 VAC / 3 W + PE
Rated Operating Current	180 A
Maximum Operating Current	198 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	314 Ah
Battery Cycle Life	> 8000 times (@ +25 °C, 0.5P, 80% EOL)
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 and heating
Fire Protection	Level 3 fire protection (perfluorohexanone)
Communication Interface	RS485 / CAN / LAN
Letter of Agreement	Modbus / CAN / MQTT
Range of Working Temperature	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 4000 m (> 2000 Mderated)
Protection Level	IP55
Weight	≤ 4500 kg
Dimensions (W x H x D)	1400 x 2550 x 1350 (mm)

On-grid 100 kW / 215 kWh

Air Cooling



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
- 

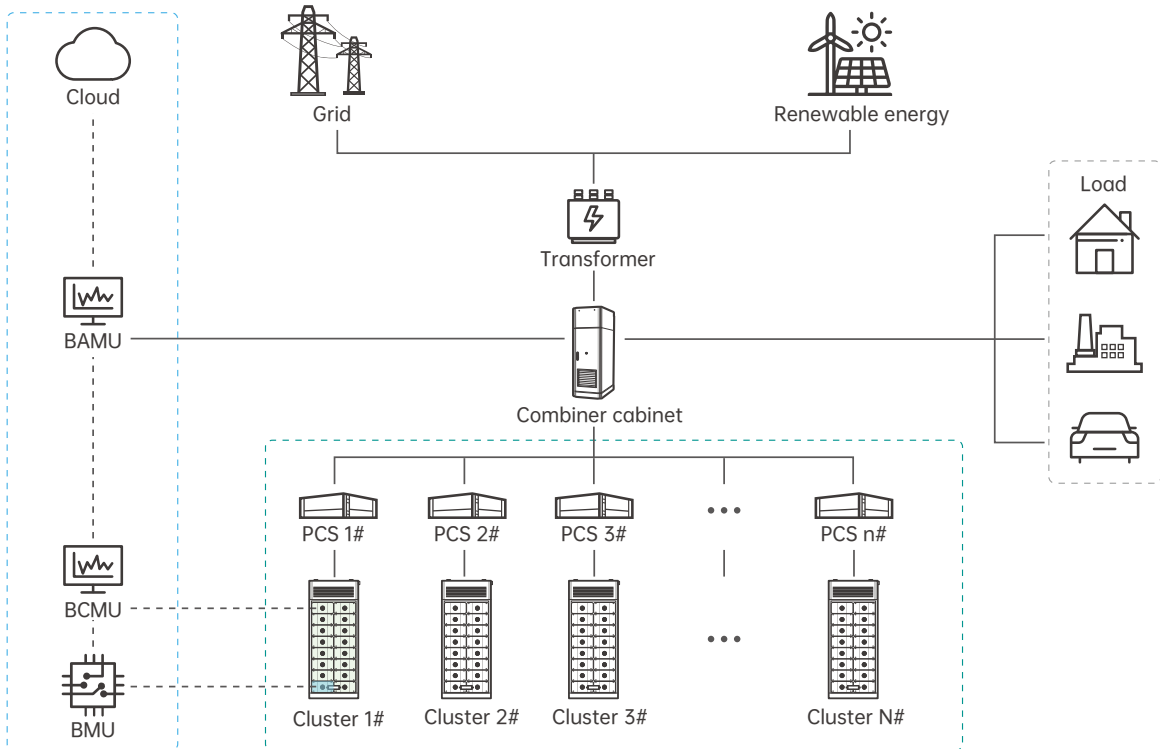
Quickly Put into Operation
Cabinet modular design
Convenient maintenance and installation, integrated transportation
Simple on-site construction
- 

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	100 kW
Maximum Output Power	110 kW
Rated Voltage	400 VAC / 3 W + N + PE
Rated Current	144 A
Maximum Current	158 A
Rated Frequency	50 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Cell Capacity	280 Ah
Battery Cycle Life	> 6000 times (@ +25 °C, 0.5P, 80% EOL)
Serial Method	1P240S
Rated Capacity	215 kWh
Rated Battery Voltage	768 V
Voltage Range	648 to 876 V
Thermal Management	Intelligent air cooling
Fire Protection	Perfluorohexanone (Novec 1230)
Communication Interface	Ethernet / RS485 / CAN
Communication Protocol	Modbus / CAN / MQTT
Temperature Range	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 4000 m (> 2000 m derated)
IP Grade	IP55
Weight	≤ 2500 kg
Dimensions (W x H x D)	1050 x 2500 x 1200 (mm)

On-grid 125 kW / 241 kWh
Air Cooling



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

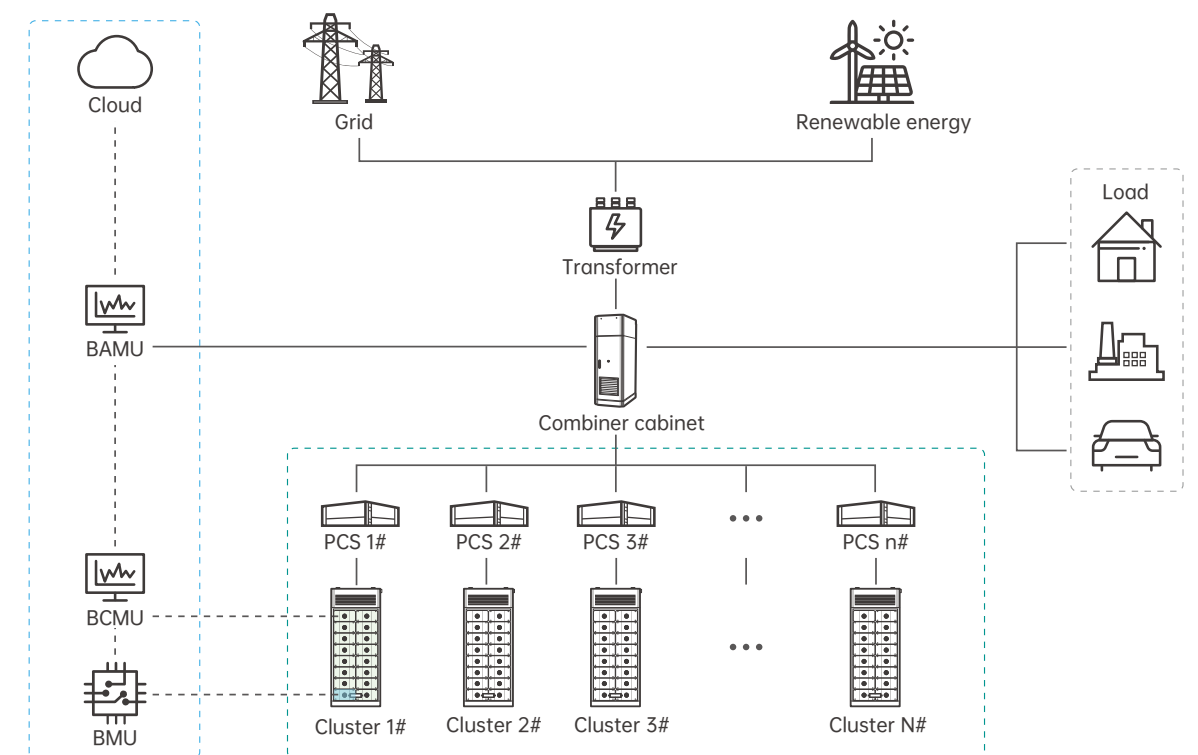
LFP cell
High safety, long life



High Adaptability

Suitable for all loads or AC power generation equipment

Product Application



Rated Output Power	125 kW
Maximum Output Power	137 kW
Rated Voltage	400 VAC / 3 W + N + PE
Rated Current	180 A
Maximum Current	209 A
Rated Frequency	50 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Cell Capacity	314 Ah
Battery Cycle Life	> 8000 times (@ +25 °C, 0.5P, 80% EOL)
Serial Method	1P240S
Rated Capacity	241 kWh
Rated Battery Voltage	768 V
Voltage Range	648 to 876 V
Thermal Management	Intelligent air cooling
Fire Protection	Perfluorohexanone (Novec 1230)
Communication Interface	Ethernet / RS485 / CAN
Communication Protocol	Modbus / CAN / MQTT
Temperature Range	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 4000 m (> 2000 m derated)
IP Grade	IP55
Weight	≤ 2500 kg
Dimensions (W x H x D)	1050 x 2500 x 1250 (mm)

On-grid 186 kW / 372 kWh Liquid Cooling



Product Advantages

- Intelligent Control**

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

LFP cell
Multi-level fire protection
Long lifetime
- Flexible Application**

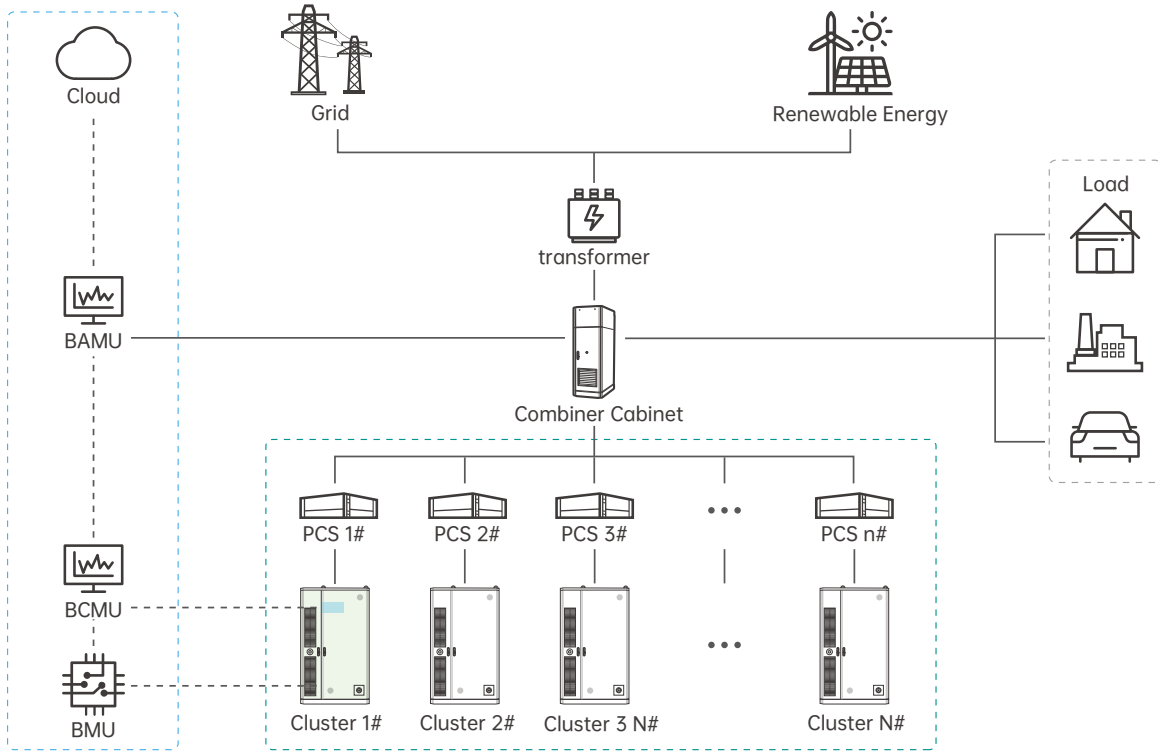
Multifunctional dispatch,
virtual power plants power
demand-side response
Peak-valley trading profit
- Flexible Expansion**

Supports parallel use of
multiple machines
Hierarchical protection of
the system
Support elastic expansion
- 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	186 kW
Maximum Output Power	205 kW
Rated Operating Voltage	690 VAC / 3 W + PE
Rated Operating Current	155 A
Maximum Operating Current	171 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	280 Ah
Battery Cycle Life	> 6000 times (@ +25 °C, 0.5P, 80% EOL)
String Mode	1P416S
Rated Power	372 kWh
Rated Battery Voltage	1331.2 V
Operating Voltage Range	1123.2 to 1497.6 V
Thermal Management	Liquid cooling and heating
Fire Protection	Level 3 fire protection (perfluorohexanone)
Communication Interface	RS485 / CAN
Letter of Agreement	Modbus / CAN / MQTT
Range of Working Temperature	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	$\leq 4000\text{ m}$ (> 2000 m derated)
Protection Level	IP55
Weight	$\leq 4000\text{ kg}$
Dimensions (W x H x D)	1400 x 2350 x 1350 (mm)

On-grid 215 kW / 418 kWh Liquid Cooling



Product Advantages

- Intelligent Control**

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

LFP cell
Multi-level fire protection
Long lifetime
- Flexible Application**

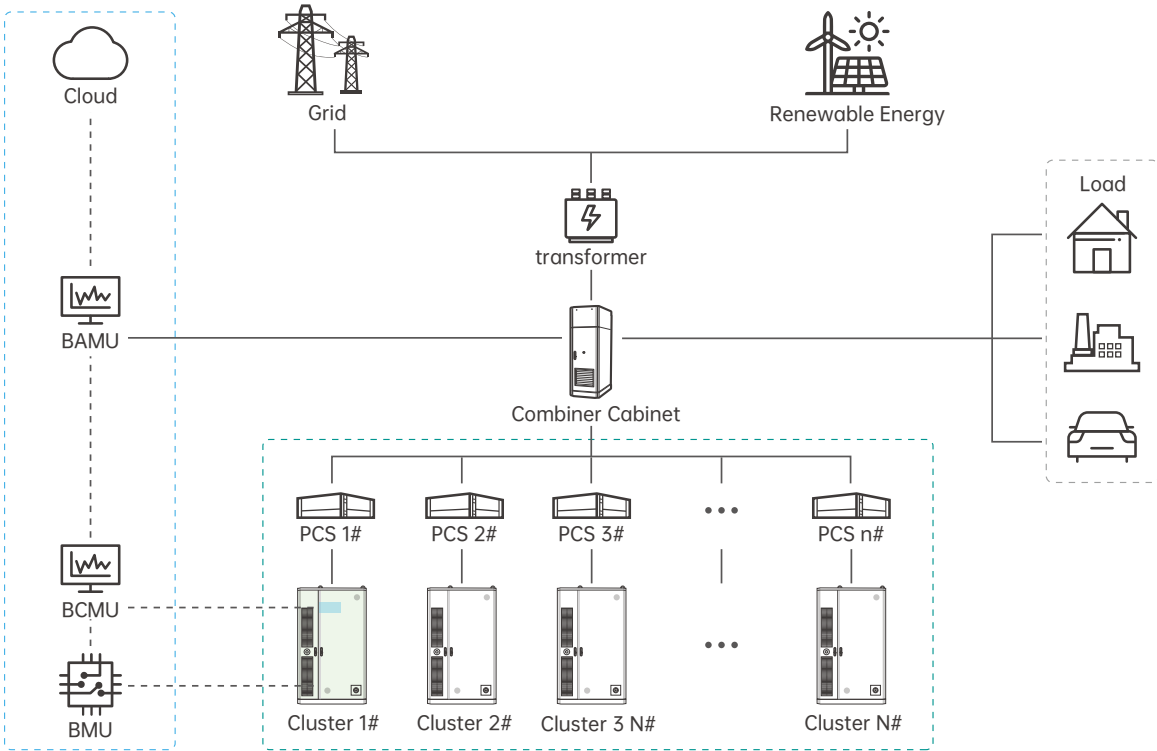
Multifunctional dispatch, virtual power plants power demand-side response
Peak-valley trading profit
- Flexible Expansion**

Supports parallel use of multiple machines
Hierarchical protection of the system
Support elastic expansion
- 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	237 kW
Rated Operating Voltage	690 VAC / 3 W + PE
Rated Operating Current	180 A
Maximum Operating Current	198 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	314 Ah
Battery Cycle Life	> 8000 times (@ +25 °C, 0.5P, 80% EOL)
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 and heating
Fire Protection	Level 3 fire protection (perfluorohexanone)
Communication Interface	RS485 / CAN / LAN
Letter of Agreement	Modbus / CAN / MQTT
Range of Working Temperature	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	$\leq 4000\text{ m}$ (> 2000 m derated)
Protection Level	IP55
Weight	$\leq 4500\text{ kg}$
Dimensions (W x H x D)	1400 x 2550 x 1350 (mm)

On-grid 125 kW / 261 kWh Liquid Cooling



Product Advantages

- Intelligent Control**

Refined thermal management, PACK temp difference ≤ 3 °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

Support elastic expansion
- Quickly Put into Operation**

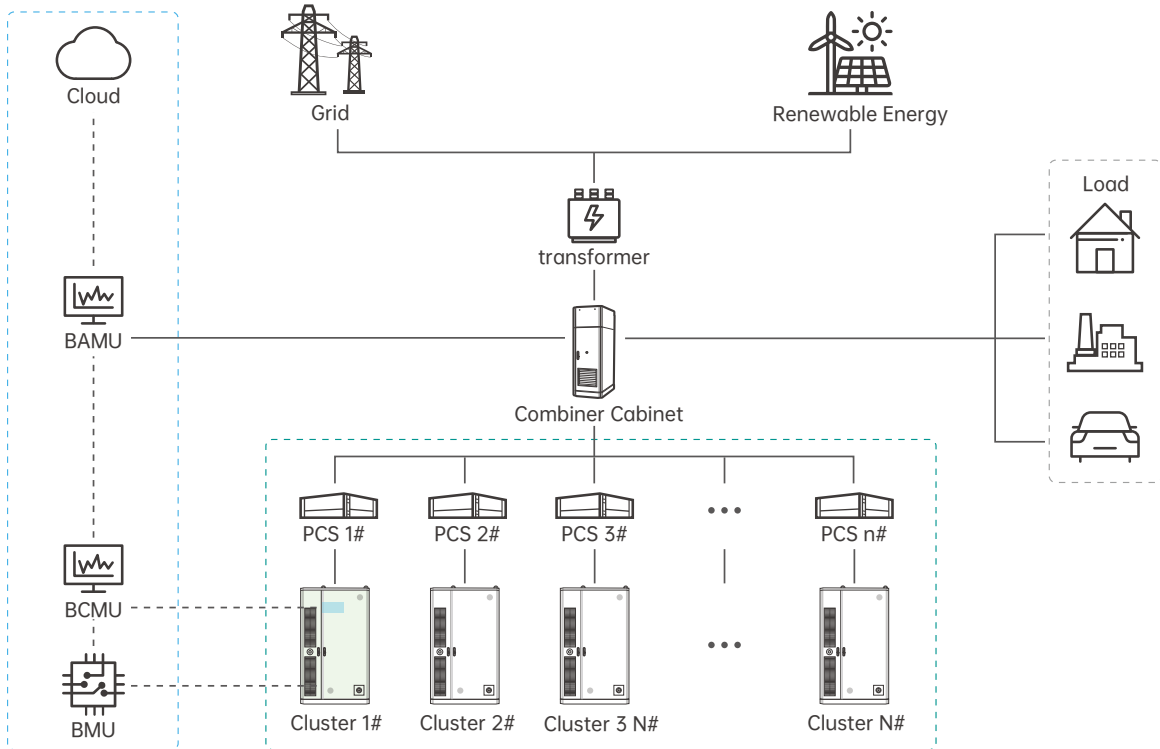
Modular cabinet design

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	125 kW
Maximum Output Power	137.5 kW
Rated Operating Voltage	400 VAC / 3 W + PE
Rated Operating Current	180 A
Maximum Operating Current	198 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	314 Ah
Battery Cycle Life	> 8000 times (@ +25 °C, 0.5P, 70% EOL)
String Mode	1P260S
Rated Power	261 kWh
Rated Battery Voltage	832 V
Operating Voltage Range	702 to 936 V
Thermal Management	Liquid cooling and heating
Fire Protection	Level 3 fire protection (perfluorohexanone)
Communication Interface	RS485 / CAN
Letter of Agreement	Modbus / CAN / MQTT
Range of Working Temperature	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 4000 m (> 2000 m derated)
Protection Level	IP55
Weight	≤ 2500 kg
Dimensions (W x H x D)	1000 x 2400 x 1350 (mm)

Off-grid 500 kW / 1.2 MWh System



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



Intelligent Control

Multi-level control architecture
Support cloud technology
Intelligent temperature control



High Security

LFP cell
High safety, long life



Quickly Put into Operation

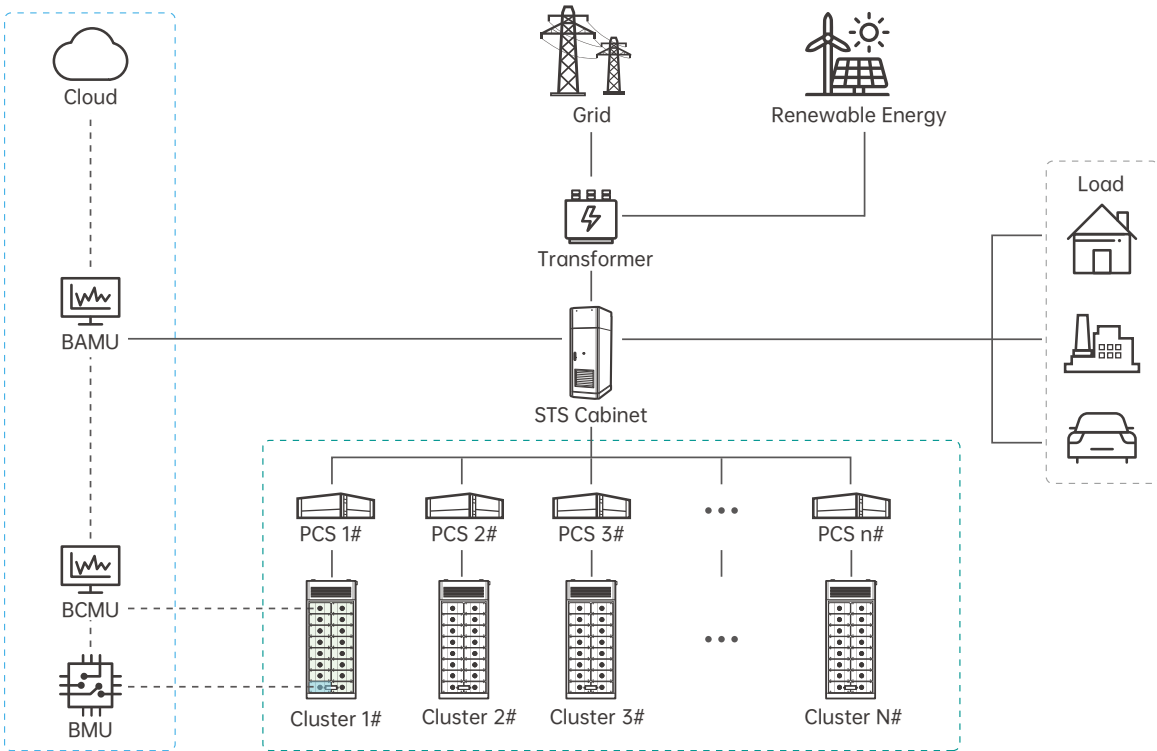
Cabinet modular design
Convenient maintenance and installation, integrated transportation
Simple on-site construction



High Adaptability

Suitable for all loads or AC power generation equipment

Product Application



Rated Output Power	500 kW
Maximum Output Power	525 kW
Rated Operating Voltage	400 VAC / 3 W + PE
Rated Operating Current	721 A
Maximum Operating Current	758 A
Rated Frequency	50 / 60 Hz
Cell Type	Lithium Iron Phosphate (LFP)
Battery Specifications	314 Ah
Battery Cycle Life	> 8000 times (@ +25 °C, 0.5P, 70% EOL)
String Mode	1P240S * 5
Rated Power	1.2 MWh
Rated Battery Voltage	832 V
Operating Voltage Range	648 to 876 V
Thermal Management	Liquid cooling and heating
Fire Protection	Level 3 fire protection (Perfluorohexanone)
Communication Interface	RS485 / CAN / LAN
Letter of Agreement	Modbus / CAN / MQTT
Range of Working Temperature	Charging: 0 °C to +55 °C Discharging: -15 °C to +55 °C
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 4000 m (> 2000 m derated)
Protection Level	IP55
Weight	≤ 15000 kg
Dimensions (W x H x D)	7100 x 2500 x 980 (mm)

BMS 1st Level



Applications

Battery pack management (52S) ; C&I ESS and Container ESS

- 6-52 string cell voltage and temp monitoring, sampling line disconnection detection
- Integrated AFE chip, sampling accuracy (± 1.5 mV voltage & ± 0.5 temp)
- Bidirectional DC / DC active balancing; output constant current and voltage charge & discharge on battery
- ± 4 A balancing current, meet 1500 V voltage platform
- Multiple communication interface, compatible with CAN2.0 & CANFD

Product Parameters

Input voltage:	— DC 16 to 32 V	Voltage sampling:	— 6 to 52 S	Single unit detection:	— 0 to 5 V (±3 mV)
Active balancing:	— Bidirectional 4A constant current	Operating temperature:	— -40 °C to +85 °C	Temperature sampling:	— 56 places
Temperature Detection range:	— -40 °C to +125 °C	Communication interface:	— 1 channel isolated CAN2.0/CANFD		

BMS 2nd Level



Applications

Battery cluster management ; 1500V voltage battery system ; C&I ESS and Container ESS

- Collect battery voltage, temp, insulation resistance data from BMU
- Manage battery cluster through SOX estimation, control battery cluster output, contactor on / off
- Connect to the switch via LAN for data interaction with BAMU
- External contactor, AC / DC circuit breaker, acoustooptic, fire control and switch status detection
- Communicate with PCS and external sensors to realize data interaction

Product Parameters

Input Voltage:	— 2 channels DC 16 to 32 V	Insulation Resistance Monitoring:	— Accuracy ±15%
Voltage Monitoring:	— Bidirectional 4 A constant current	8 Channels Active DO Output:	— 2 A @ 30 V
12 Channels Isolated DI Input		4 Channels Passive DO Output:	— 3 A @ 30 V-DC or 3 A @ 250 V-AC

BMS 3rd Level



Applications

BESS management ; Third Lever Control for C&I ESS and Container ESS,
Linkage control with PCS and EMS

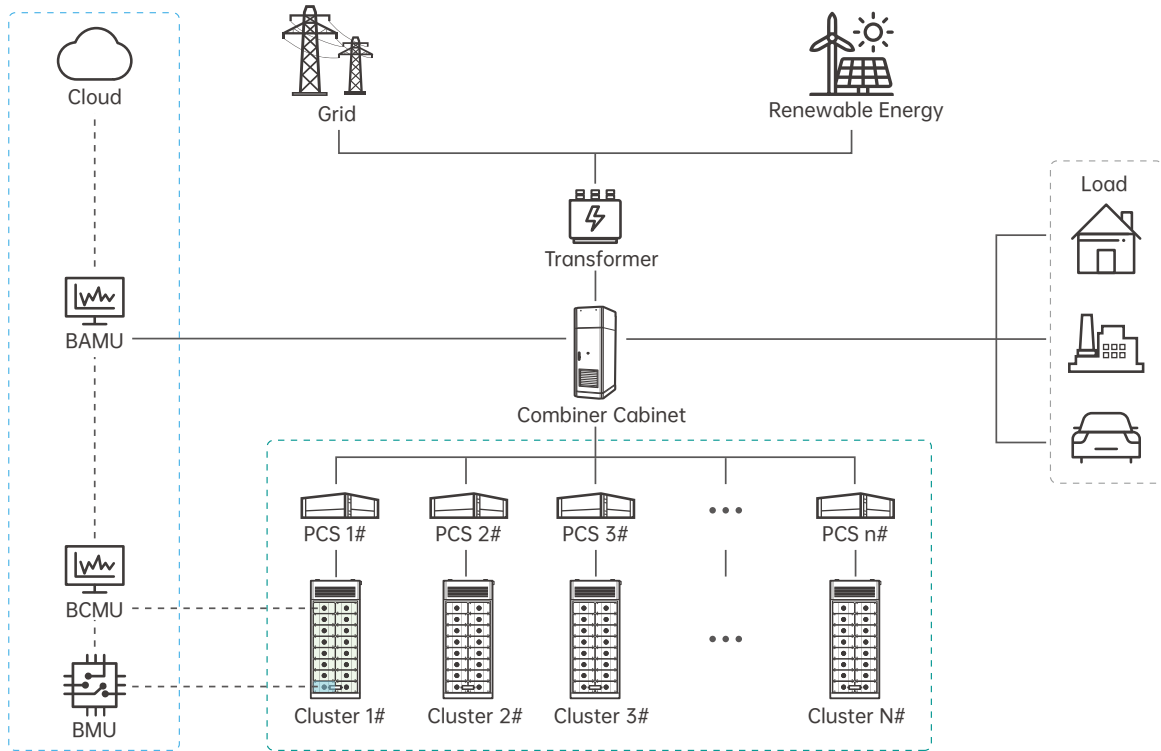
Product Features

- Seconds of data retention
- Edge computing, real-time diagnosis of battery safety & health status, equipment status inspection
- Triple-network redundancy, with multi-interface centralized control capability
- Micro-service architecture, support SDK secondary development
- QT UI architecture, support OTA remote upgrade
- Support overvoltage & undervoltage, overcurrent, differential pressure & temp protection, FDD, thermal control

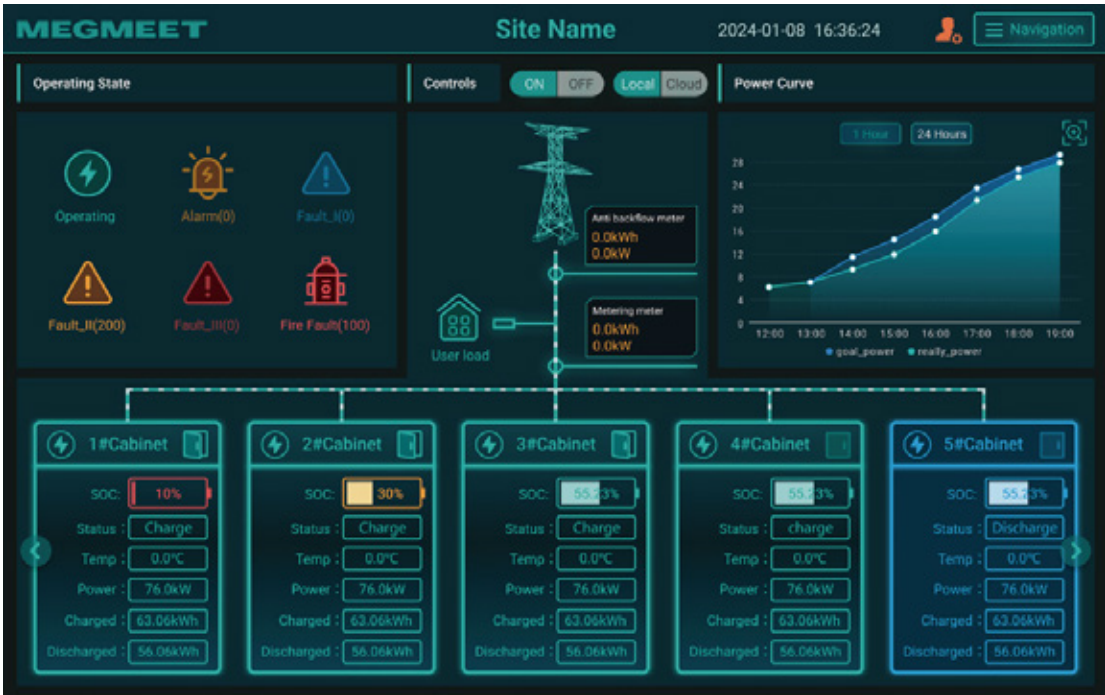
Product Parameter

- 3-Channels LAN
- 5-Channels RS485
- 3-Channels CAN
- 12-Channels DI
- 12-Channels DO
- 2 g main frequency / 4 g memory, support data refresh, response within 100 ms
- 500 g solid state drive, seconds of data retention

Product Application

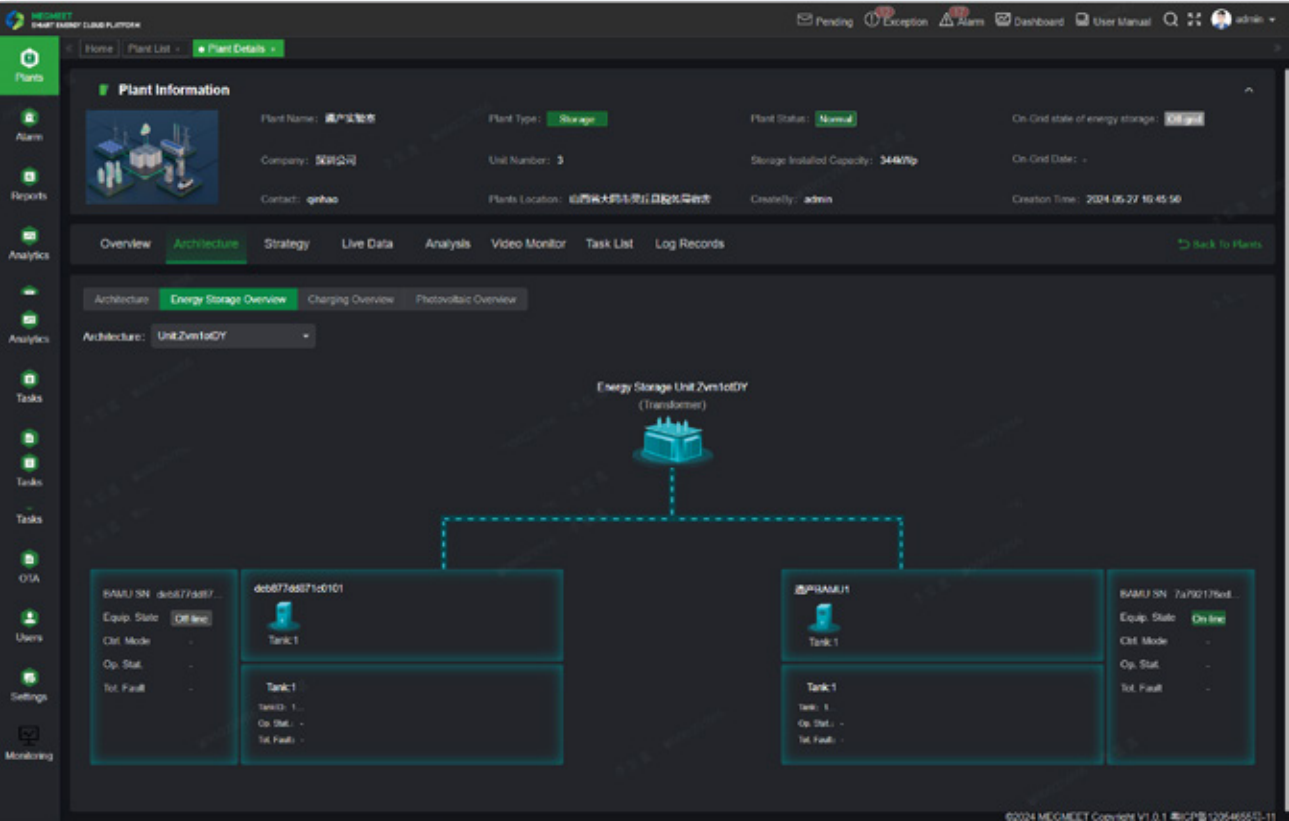


BAMU Monitoring Platform



- Access to data from various components of ESS
- Demand control, anti-backflow control
- Access and control data on BMS, PCS, fire protection, air conditioning, temp & humidity sensor and Io interface
- Real time data monitoring
- Support redevelopment for cloud platform

Cloud



Power Station Architecture
Connected to PV, ESS, EV charger

Power Station Strategy
Peak & valley arbitrage, controlling the cost of electricity, generating revenue from electricity prices

Electrical Safety
Implement demand protection and anti-backflow strategies to ensure safety

Video Monitoring
Real-time monitoring of equipment to ensure safety
Real-time alarm

Charge & Discharge Analyze
Analysis of charge & discharge capacity in peak & valley period, calculating the charge & discharge efficiency

Electricity & Revenue Report
Peak & valley period charging & discharging capacity & costs analysis



Revenue Statistics
Daily charging cost & discharge revenue statistics
Daily comparative analysis by chart

Data Analysis
Support upload on protocol data and file to report the platform
Curve diagram analysis on voltage, current, temp, SOH, integrated safety data

Equipment Upgrade
OTA upgrade, management of upgraded firmware packages; set up upgrade plans for batch or individual devices; real-time monitoring for upgrading process

Battery PACK (Air Cooling)



Product Advantages



CCS Integrated Design
CCS sampling ensures high accuracy and reliability



High Compatibility
PACK is compatible with 280 / 314 / 320 Ah battery cell sizes and can be smoothly replaced and upgraded



Integrated Panel Design
The simple integrated panel design integrates fans and external BMU, allowing for convenient front-side maintenance



Multiple Cooling Design
The cooling design has multiple types, ensuring good consistency in the temperature of the battery

Product Parameters

Electrical Performance	
Rated Energy	14.336 kWh
Battery Configuration	1P16S
Rated Capacity	280 Ah
Rated Voltage	51.2 V
Voltage Range	40 to 58.4 V
Rated Charge Power	0.5P
Rated Discharge Power	0.5P
Cycle Life	> 6000 times (@ +25 °C, 0.5 P, 80 % EOL)
Working Environment	
Thermal Management	Forced air cooling
Working Temperature Range	Charging: 0 °C to +55 °C Discharge: -20 °C to +55 °C
Storage Temperature	-20 °C to +45 °C (1 month) 0 °C to +35 °C (6 months)
Relative Humidity	0 to 95% Rh (no condensation)
Altitude	≤ 3000 m
Structure Appearance	
IP Grade	IP20
Total Weight	102 kg
Dimensions (W x H x D)	471 x 234 x 674 (mm)

Battery PACK (Liquid Cooling)



Product Advantages



CCS Integrated Design
CCS sampling
High integration, collect voltage and temp data of each cell



High Compatibility
Compatible with 280 /314 / 320 Ah battery cell
Smoothly replaced and upgraded



High Security
PACK level fire protection



Active Balancing
Compatible with active & passivebalancing The activebalancing current can reach 4 A

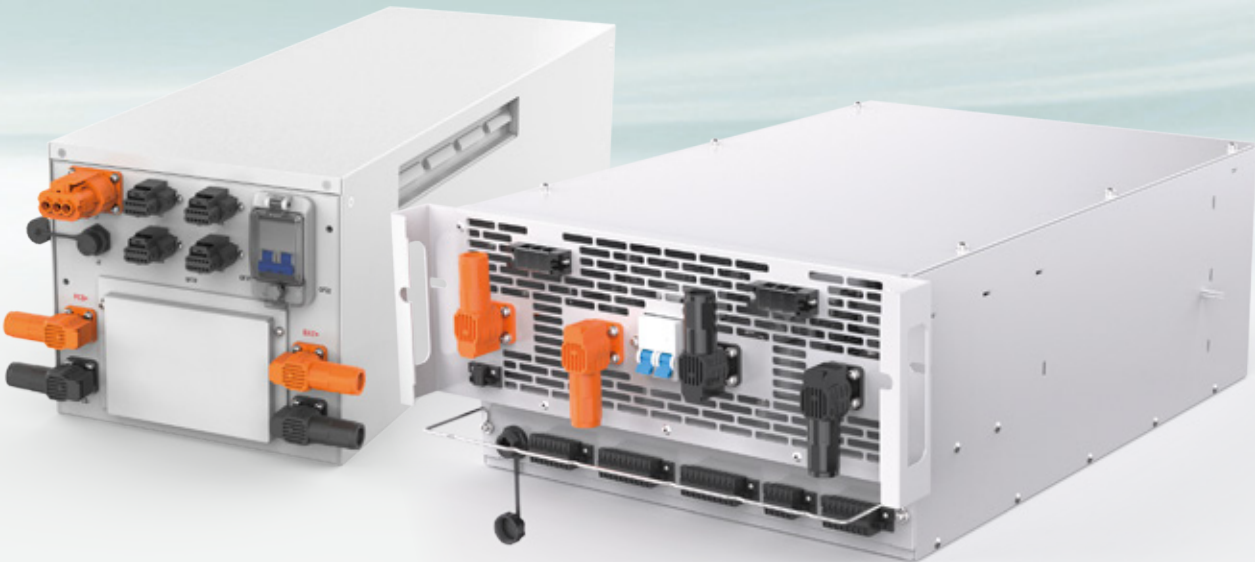


Liquid Cooling
Adopting smartliquid cooling system
Module temperature difference ≤ +2.5 °C

Product Parameters

Electrical Properties	
Rated Energy	46.592 kWh
Battery Configuration	1P52S
Rated Capacity	280 Ah
Rated Voltage	166.4 V
Voltage Range	145.6 to 187.2 V
Standard Charging Current	140 A
Maximum Charging Current	160 A
Standard Discharge Current	140 A
Maximum Continuous Discharge Current	160 A
Battery Cycle Life	> 6000 times (@ +25 °C , 0.5 P, 80% EOL)
Working Environment	
Thermal Management	Liquid cooling
Temperature Range	Charging: 0 °C to +55 °C Discharging: -20 °C to +55 °C
Storage Temperature	-20 °C to +45 °C (1 month) 0 °C to +35 °C (6 months)
Working Humidity	≤ 95 % Rh (No condensation)
Altitude	≤ 3000 m
Structure Appearance	
IP Grade	IP67
Gross Weight	340 kg
Dimensions (W x H x D)	802 x 246 x 1160 (mm)

High Voltage Box



Product Advantages

High Compatibility

Multiple communication methods

Battery Cluster Pre-charge Function

Fuse short circuit protection

Smart Control

Intelligent control, multiple protections

Modular Design

Easy installation

Product Parameters

AC Input Voltage	220 VAC (phase voltage)
Rated DC Voltage	1331.2 VDC
DC voltage Range	1040 to 1497.6 VDC
DC Maximum Current	160 A
Rated Charge and Discharge Rate	0.5C
Battery Type	LFP
Battery Capacity	372 kWh
Communication Interface	Ethernet / CAN / RS485
Equalization Strategy	Active balancing (balancing current 2 / 4 A)
Dimensions (W x H x D)	290.0 x 259 x 781.5 (mm)
IP Grade	IP20

Product Parameters

AC Input Voltage	220 VAC (phase voltage)
Rated DC Voltage	768 VDC
DC voltage Range	660 to 864 VDC
DC Maximum Current	150 A
Rated Charge and Discharge Rate	0.5C
Battery Type	LFP
Battery Capacity	215 kWh
Communication Interface	Ethernet / CAN / Rs485
Equalization Strategy	Passive Balancing (balancing current 100 mA)
Dimensions (W x H x D)	471.2 x 218.7 x 581.2 (mm)
IP Grade	IP20

Energy Storage Combiner Cabinet



Product Advantages



Modular Design
Flexible and scalable
on demand



Safety & Intelligent Control
Central control and cabinet
control management



Intelligent Cloud Connection
Cloud Interconnection
Real-time monitoring

Combiner Cabinet for Air Cooling ESS Product Parameters

Rated Output Voltage	400 VAC
Rated Output Current	800 A (4 energy storage cabinets are equipped with a 800 A switch)
Rated Frequency	50 / 60 Hz
Input Current for Single ESS	200 A
Number of Input Channels	4 channels (4 energy storage cabinets are equipped with a 800 A switch)
IP Grade	IP55
Weight	≤ 400 kg
Dimensions (W x H x D)	600 x 2500 x 980 (mm)

Combiner Cabinet for Liquid Cooling ESS Product Parameters

Rated Output Voltage	690 VAC
Rated Output Current	1600 A (6 energy storage cabinets are equipped with a 1600 A switch)
Rated Frequency	50 / 60 Hz
Input Current for Single ESS	156 A
Number of Input Channels	6 channels (6 energy storage cabinets are equipped with a 1600 A switch)
Ip Grade	IP55
Weight	≤ 750 kg
Dimensions (W x H x D)	800 x 2350 x 1350 (mm)

R&D CAPABILITY

Sustainable R&D Investment

R&D Investment

R&D Employees
>3,000

Percentage of
Total Employees
35%

Percentage of Total Sales
>12%

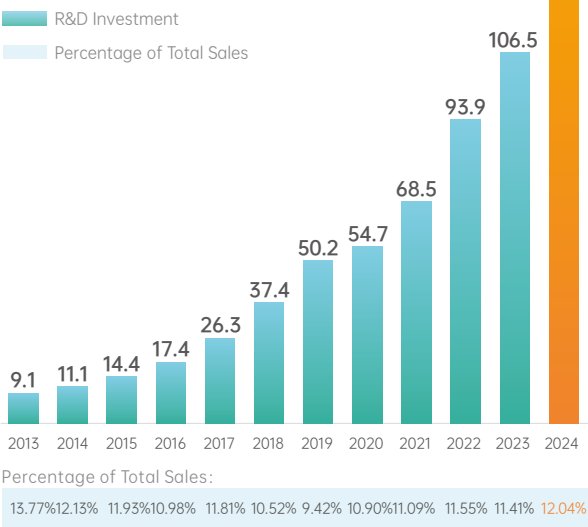
Patents & Industry Standards

No. of Patents & IP Rights
1,990⁺
400+ new in 2024

National & International Standards
32
9 lead author

Industry Standards Drafted
38
28 lead author

R&D Investment
(in Millions of USD)



Testing Capabilities & Management System



MEGMEET's testing capabilities and management system have been certified by CNAS, TUV, UL-WTDP, & UL-CTF. MEGMEET's test results are recognized globally.

MANUFACTURING CAPACITY

Global Manufacturing Centers to Ensure Customer Supply



FY2023	Total Plant Area 422,492 m ²	Production Lines 184	PCBA per Year 90M PCS
By FY2028	Total Plant Area 666,518 m ²	Production Lines 390	PCBA per Year 284M PCS

Having a complete sheet metal production chain — Production Equipment



Having A Complete Sheet Metal Production Chain — **Sheet Metal Spraying**



Having A Complete Sheet Metal Production Chain — **Production & Assembly**



Having A Complete Sheet Metal Production Chain — **Testing & Inspection**



ABOUT MEGMEET

MEGMEET is a comprehensive solution provider for hardware and software R&D, production, sales, and service in the field of electrical automation. With power electronics and automation control at its core, MEGMEET's main businesses include Power Solutions, Industrial Automation, eMobility & EV Infrastructure, Intelligent Equipment, Home Appliance Control Solutions, and Precision Connection.

MEGMEET has established a robust R&D, manufacturing, marketing, and service platform, with over 8,400 employees, including more than 3,000 R&D staff worldwide. MEGMEET's global presence includes R&D Centers in China, the United States, and Germany; Manufacturing Centers in Thailand, India, the United States, and China; and Regional Offices across North America, South America, Europe, Central Asia, Northeast Asia, Southeast Asia, India, the Middle East, Oceania, and Africa.

MEGMEET is committed to creating a cleaner living environment for all human beings through more efficient energy utilization and improved manufacturing efficiency. MEGMEET aims to become the world leader in electrical automation and achieve the goal of MEGMEET EVERYWHERE.



ODM

OEM



System Components
Supplier



Mass Customization
Source Factory



One-Stop
Solution