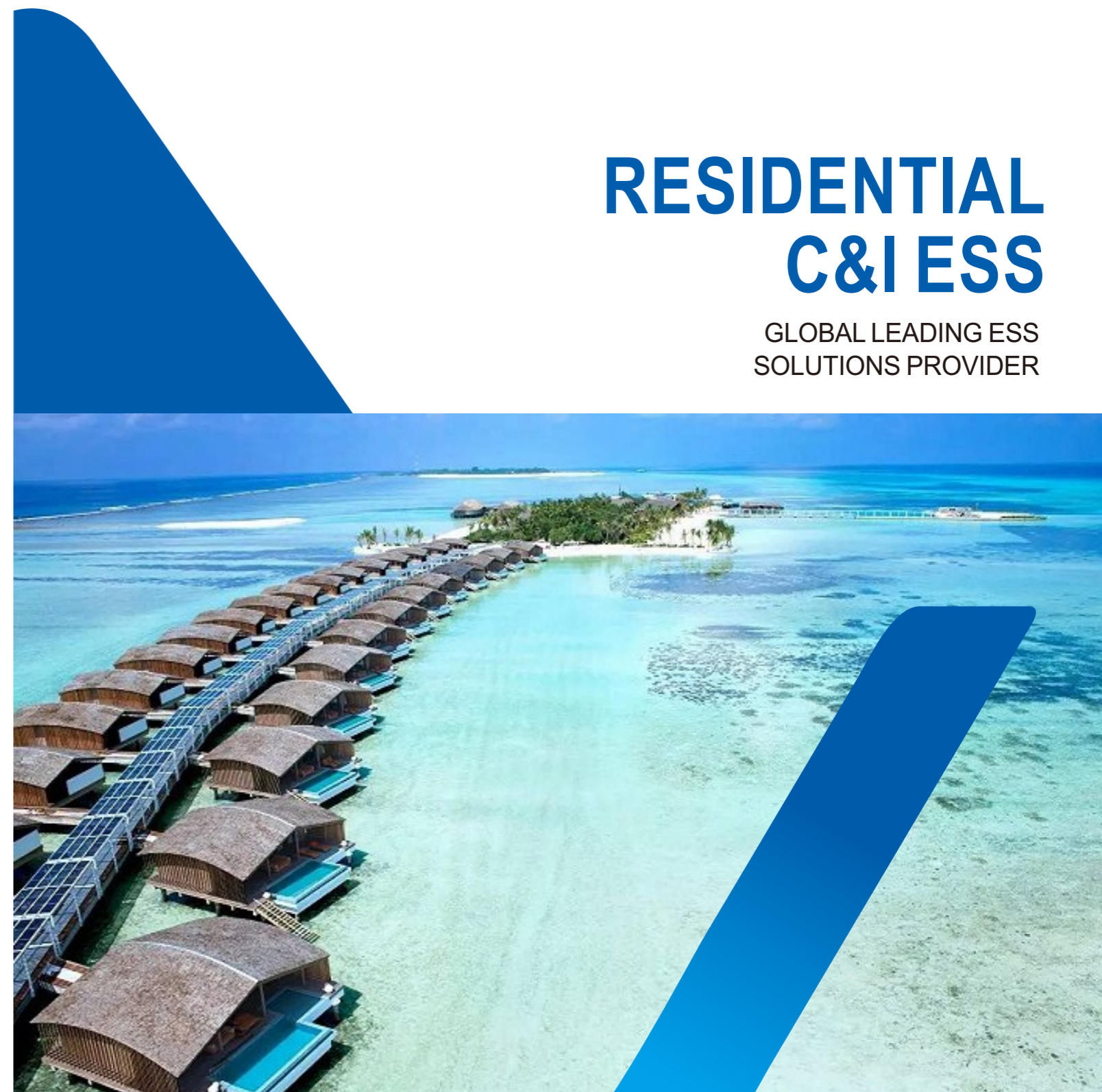




RESIDENTIAL C&I ESS

GLOBAL LEADING ESS
SOLUTIONS PROVIDER



• Battery Factory Base · China
• Mandalay · Myanmar
• Hanoi · Vietnam
• Manila · Philippines





Company Introduction

IMOCH is a company focusing on the research and development, production and sales of new energy lithium battery technology. It is headquartered in Yichun, the lithium capital of Asia.

Yichun has formed a complete industrial chain from lithium resource mining, purification and processing to upstream and downstream products such as power batteries and new energy vehicles. It already has a complete industrial chain advantage and is a veritable lithium capital of Asia.

As a company with innovative spirit and forward-looking vision, IMOCH is committed to becoming the world's leading lithium battery manufacturer and solar energy solution provider. We know that the lithium battery industry, as an important part of the new energy field, is of great significance in promoting the transformation of the global energy structure and achieving sustainable development. Therefore, we continue to invest in research and development to improve product quality and performance and services to meet the growing market demand.

IMOCH has passed ISO9001 quality management system, ISO14001 environmental management system, QHSAS18001 occupational health and safety management system, energy management system and other system certifications. The products have also successfully passed CE, UL, UN38

1000 PCS

Monthly Production Capacity

2

R&D centers

3

Overseas Base

-Mandalay, Myanmar

-Manila, Philippines

-Hanoi, Vietnam

2.2GW

Annual Production Capacity

2

Production Base

-YiChun

-DongGuan



5/10/15KWh
PowerWall
Energy Storage Battery

Features <<<

> Reliable

Tier-1 top brands' A-Grade LFP cells to ensure high safety and excellent performance
Over 8000 times cycle life
The adoption of high-performance processors, international brand devices, better stability

> Intelligent

Multi-level intelligent energy management implemented, enhance performance and extend life span
One-button switch mechanism, more convenient operation
High BMS compatibility, perfect match of energy storage inverter
Intelligent BMS to enable a safe and reliable operation

> Flexibility

6-pin Dip Switch ensures a maximum 16 units parallel arrangement
Over 95% world-famous inverter brands can be compatible with
Residential or small commercial, off-grid or hybrid, the battery goes with the application scenarios



>>> 5/10/15KWh PowerWall

| | | | |
|----------------------------------|---|---------------|---------------|
| Model Capacity | PM5ESS-LV | PM10ESS-LV | PM15ESS-LV |
| Battery type | LiFePo4 | | |
| Capacity Energy | 5KWh | 10KWh | 15KWh |
| Capacity (Ah) | 100Ah | 200Ah | 295Ah |
| Battery pack type | 16S1P | 16S1P | 16S1P |
| Suggested SOC | 10~100% | | |
| Nominal Voltage | 51.2V | | |
| Operation Voltage | 44.8~57.6V | | |
| Max Charging/Discharging Current | 50A | 100A | 150A |
| BMS | Robust multi point monitoring BMS pre installed | | |
| Scalable (Parallel function) | Yes, maximum 16 packs | | |
| Life Cycling (0.5C&25°C) | 6000 cycles @ 0.5C; 80% DOD | | |
| Operation Temperature | Charge: 0~45°C, Discharge: -10~45°C | | |
| Warranty | 5 years | | |
| Storage Temperature | -20~45°C | | |
| Net Weight | 50kg | 90kg | 119kg |
| Gross Weight | 62kg | 102kg | 135kg |
| Dimensions | 645*385*165mm | 715*415*290mm | 813*415*290mm |
| Packing Size | 725*460*360mm | 790*490*450mm | 880*490*450mm |
| Certifications | MSDS, UN38.3, CE, IEC62619 (Cell), UL (Cell) | | |
| IP Grade | IP21 | | |
| Communication | RS232, RS485, CAN | | |

>>> Compatible Inverter Brands.





Features <<<

> Lift-up Mobility

From 20.48KWh to 51.2KWh
 Between 2 to 5 battery modules can be used in single stack to give 20.48 to 51.2kWh usable capacity
 Up to 6 stacks can be connected in parallel to give a maximum 307.2kWh usable capacity
 Additional module or parallel stack can be added to increase capacity

> Safety Guaranteed

LFP battery, Cobalt free, environmentally friendly · Maximized safety cycle life, and power output

> Wide-range Application Scenarios

Suitable for Emergency-Backup and Off-Grid
 Self-Consumption Optimization for Residential and Commercial



>>> 20-50KWh Ground Eco Low Voltage Battery Energy Storage System

| | | | | |
|-----------------------------------|--|-------------|-------------|--------------|
| Model Capacity | LH02-IMC20 | LH03-IMC30 | LH04-IMC40 | LH05-IMC50 |
| System Demo | | | | |
| Battery Module | ECOBOX-LV-10 (10.24kWh, 200AH, 51.2V, 90kg, 640*379*230) | | | |
| Battery Type | LiFePo4 | | | |
| Number Of Modules | 2 | 3 | 4 | 5 |
| Energy Capacity(kW-h) | 20.48 | 30.72 | 40.96 | 51.2 |
| Normal Voltage(V) | 51.2 | | | |
| Operating Voltage Range(V) | 44.8~57.6 | | | |
| Standard Charge/Discharge Current | 100A@0.5C(max200A) | | | |
| Dimension mm(W/D/H) | 640*379*500 | 640*379*730 | 640*379*960 | 640*379*1190 |
| Weight(KG) | 180 | 270 | 360 | 450 |
| Operation Temperature | -10-45°C | | | |
| IP Protection | IP21 | | | |
| Installation | Floor installation | | | |
| Warranty | 5 years | | | |
| BMS Monitoring Parameters | SOC, system voltage, current, cell voltage | | | |
| Application scenarios | Solar System, Power Back Up, UPS system | | | |
| Life Cycling (0.5C & 25°C) | 6000 cycles @0.5C; 80%DOD | | | |
| Communication Port | CAN/RS485 | | | |

>>> Compatible Inverter Brands.



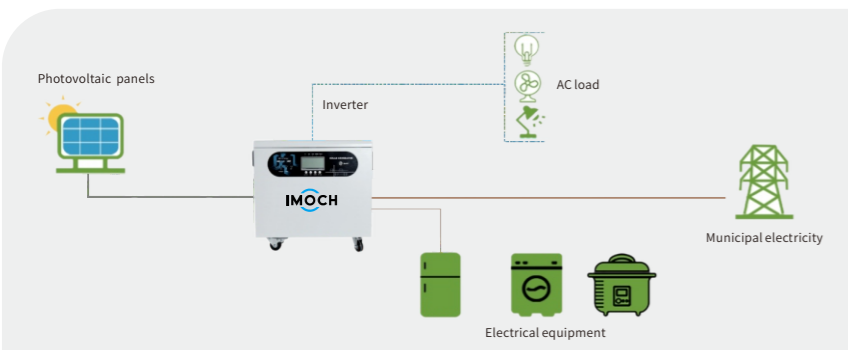


Features <<<

All In One - Battery and inverter integrated to work together.

- ▶ Can be directly connected to the mains for charging;
- ▶ Can be directly connected to photovoltaic panels for charging;
- ▶ Simple wiring and installation;
- ▶ Can be used outdoors;
- ▶ 220V output, can directly power household appliances;

Product application diagram <<<



| Item | 3KW/5KWh | 5KW/10KWh |
|------------------------------|---|-------------|
| Inverter | | |
| Rated Power | 3000W | 5000W |
| Peak Power | 5000W | 7500W |
| System Voltage | 25.6V | 51.2V |
| Output Voltage | 220VAC | |
| Input Voltage | 220VAC | |
| Output Frequency | 50HZ | |
| Efficiency | ≥85% | |
| Overload Capacity | 105~120%30min;120~130%5min;130~150% 1min;>150%20S;ShortCircuit 10ms | |
| Output Waveform | Pure sine wave | |
| Solar Controller | | |
| Charge Mode | MPPT | |
| Maximum Input Power | 3000W | |
| Maximum Output Current | 60A | |
| Input Voltage | 72-150VDC | |
| Battery | | |
| Rated Voltage | 25.6V | 51.2V |
| Nominal Capacity | 200Ah | 200Ah |
| Rated power | 5000Wh | 10000Wh |
| Charging Voltage | 29.2V | 58.4V |
| Continuous charging current | 0-50A | 0-100A |
| Continuous discharge current | 0-100A | 0-100A |
| General parameters | | |
| Protection function | Overvoltage/low voltage/overload/short circuit protection | |
| Operation temperature | -10~45°C | |
| Storage temperature | -20~50°C | |
| Cooling | Fan | |
| Dimension | 470*300*455 | 520*370*590 |
| Gross Weight | 70KG | 121KG |



Flex

BESS C2

Energy storage system

Features

Long life

- The battery pack adopts an insulated frame, the airflow three-dimensional direct cooling cell, and the cooling is efficient.
- Efficient heat dissipation reduces the temperature rise of the battery core during use and extends its service life;

High reliability and easy maintenance

- The insulating material is used as the battery core support frame, which has high voltage resistance and makes the system more reliable;
- BMS adopts three-level protection to improve system reliability;
- No coolant circuit, suitable for alpine areas and easy to maintain;
- Passive fire protection system makes fire control more reliable;

Full parameter interaction: income increased by 20%

- EMS adopts full parameter control, 96 time zones throughout the day, and operates according to one policy at a time.
- EMS cloud-edge collaboration, full-parameter interaction, the cloud optimizes the control strategy based on operational results, and issues control instructions based on predictions;

Flexible configuration for multiple applications

- Different 314Ah/280Ah options available;
- Multiple cabinets in parallel: supports up to 10 cabinets;
- Support on-grid/off-grid;

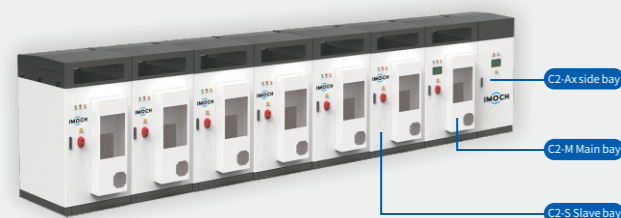
Configuration

C2110M/C2110S

C2 series battery cabinet, C2110M can be installed and used independently, and C2110S can be used in parallel as a cabinet. The cabinet is equipped with 215kWh power, 100kW PCS and EMS for independent/local applications.

Ax combiner cabinet

Ax is a C2 series busbar cabinet used for multi cabinet parallel busbar, with standard configuration of main control EMS and busbar circuit breaker; Optional STS switch



Configuration

| Number of battery | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------------------|-----|-----|-----|-----|------|------|------|------|------|------|
| FlexBESS C2110M | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| FlexBESS C2110S | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Flex BESS C2-Ax | 0 | A2 | A3 | A4 | A5 | A3X2 | A4X2 | A4X2 | A5X2 | A5X2 |
| Output power(kw) | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| Energy capacity(kwh) | 215 | 430 | 645 | 860 | 1075 | 1290 | 1505 | 1720 | 1935 | 2150 |

| | |
|---------------------------------|---|
| Item | C2110MVC2110S |
| DC Side parameters | |
| Battery chemistry | Lithium Iron Phosphate (LFP) |
| Cell life cycle | 6,000 Cycles @0.5C 25C 80% remaining capacity |
| Cell Spec. | 3.2V/280 Ah |
| Cluster configuration | 1P240S |
| Rated capacity | 215kWh |
| Rated voltage | 768V |
| Voltage range | 672V~852V |
| BMS communication interface | RS485, Ethernet |
| BMS communication protocol | Modbus RTU, Modbus TCP |
| AC Side Parameters | |
| Rated AC power | 100kW |
| Maximum AC power | 125kW |
| Rated voltage | 400V |
| Grid voltage range | ±15% |
| AC rate of current | 150A |
| Output THDi | ≤3% |
| Adjustable PF | +1~ -1 |
| Grid frequency range | 150±2.5Hz |
| Output | 3P+N+PE |
| General Parameters | |
| Dimension w/o clearances(W*D*H) | 1,100*1,400*2,100mm(Cabinet section) |
| Weight | <2t |
| Degree of protection | IP54 |
| Operating temperature range | -20~40°C |
| Relative humidity | 0~95%(non-condensing) |
| Max working altitude | ≤3000m |
| Communication interfaces | RS485, Ethernet, GPRS |
| Certifications | GB36276 |