
# Energy Storage System Solutions

4S Full-Stack Integration, Smart-Storage Synergy

East Energy Storage Technology Co., Ltd.


# Company Profile

East Group (stock code: 300376) was founded in 1989 and successfully listed on the Shenzhen Stock Exchange in 2014. It was once a subsidiary of Schneider Electric, a Fortune 500 company. The headquarters of the group is located in the Songshan Lake National High-Tech Development Zone in Dongguan, and it has multiple research and development centers around the world. The group is mainly engaged in smart power supply, data center, and smart energy businesses. It has 268 customer centers worldwide, with marketing and service networks covering over 100 countries and regions globally.

East Energy Storage Technology Co., Ltd. is a wholly-owned subsidiary of East Group. By converging cutting-edge technologies in the power sector, the company focuses on the R&D, manufacturing, and sales of core equipment and system integration, including energy storage systems, PV inverters, EV charging stations, and AI energy management. It serves as a technological innovator, delivering efficient and intelligent products and solutions for sustainable development in comprehensive energy applications.

Building upon 36 years of expertise in power electronics and energy efficiency management, EAST's energy storage system solutions stand out in the industry. These solutions feature full-stack self-developed core components, including PCS (Power Conversion System), BMS (Battery Management System), EMS (Energy Management System), PMS (Power Management System), and battery PACK. This vertical integration ensures superior system compatibility and performance optimization.

East Energy Storage has been applied to new energy, independent energy storage, and industrial and commercial energy storage for key energy customers in China and other countries and regions around the world, with an installed capacity of over 6.5 GWh.

**36 Years**
Technologies in Power Electronics
Energy Efficiency Management Technologies

**300+**
Professional R&D Engineers
65% with 10+ years of experience

**Tier 1**
Bloomberg's Energy Storage
Tier 1 list

**6.5GWh+**
Energy Storage Systems Deployed

**10GWh+**
Annual Production Capacity for Energy Storage Systems and Core Products

# 2.5MW/5MWh Centralized Energy Storage System

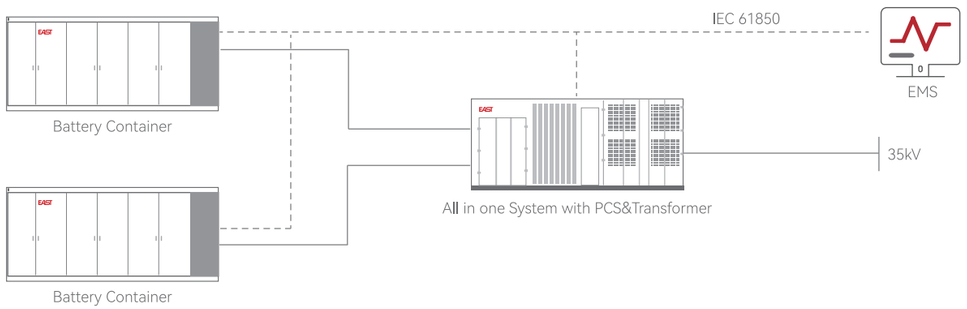
## Product Advantages

- PACK 1P104S Design, 20-foot Standard Container
- 314Ah Large-capacity Battery Cells, reduces LCOE by 16%+
- Supports side-by-side and back-to-back arrangement, saving the project's footprint by 40%
- Protection level of PACK is IP67. Protection level of Container is IP54. The anti-corrosion level C5 can withstand the challenges of harsh environments.
- Three-level Topology Structure, Maximum Efficiency ≥99%, Superior Electrical Energy Quality

## Applicable Scenarios

- Energy Storage Allocated by New Energy
- Frequency Modulation Service
- Independent Energy Storage
- C&I

## Topology




| Specification | 2.5MW/5MWh | 2.5MW/10MWh |
|---|---|---|
| DC-side | | |
| Cell type | 3.2V/314Ah | |
| System Battery Configuration | 12P416S | 12P416S×2 |
| Battery Rated Capacity | 5015.9616kWh | 10031.92kWh |
| Battery Voltage Range | 1164.8~1497.6V | |
| Certification | IEC62619、IEC62477、IEC61000-6-2、IEC61000-6-4、IEC63056、IEC62933、UN38.3 | |
| The AC-side PCS parameters | | |
| Rated AC Output Power | 2500kW | |
| Number of DC Input | 2 | |
| AC Current Distortion Rate | <3% | |
| Rated Output Voltage | AC690V | |
| Voltage Range | 586.5V~759V | |
| Power Factor | >0.99 | |
| Adjustable Reactive Power Range | -105%~105% | |
| AC Grid Frequency | 50Hz(46.5Hz~51.5Hz) | |
| Isolation Method | Transformer | |
| Certification | IEC62477、IEC61000、IEC62109 | |
| Transformer Parameters | | |
| Rated Power | 2750kVA | |
| Voltage Range | 37±2×2.5%/0.69kV | |
| Transformer Connection Group | Dy11 | |
| Certification | IEC60076、IEC62271 | |
| System Parameters | | |
| PCS&Transformer Dimensions (W x H x D) | 9087×2896×2438mm | |
| Battery Container Dimensions (W x H x D) | 6058×2896×2438mm | 6058×2896×2438mm(×2) |
| PCS&Transformer Weight | 20T | |
| Battery Container Weight | ≤44T | ≤44T×2 |
| IP Level | IP54 | |
| Corrosion-proof Grade | C5 | |
| Operating Temperature Range | -30℃~50℃ | |
| Operating Humidity Range | 5%~95%(No Condensation) | |
| Max. Operating Altitude | 4000m | |
| Cooling Method | Liquid Cooling(DC)and Smart Air Cooling(AC) | |
| Fire Protection System | Aerosol + Water Fire + Explosion-Proof Fan | |
| System Communication Interface | CAN、RS485、LAN | |
| External System Communication Protocol | Modbus TCP、IEC61850 | |

# 2.5MW/5MWh Integrated AC and DC Energy Storage System

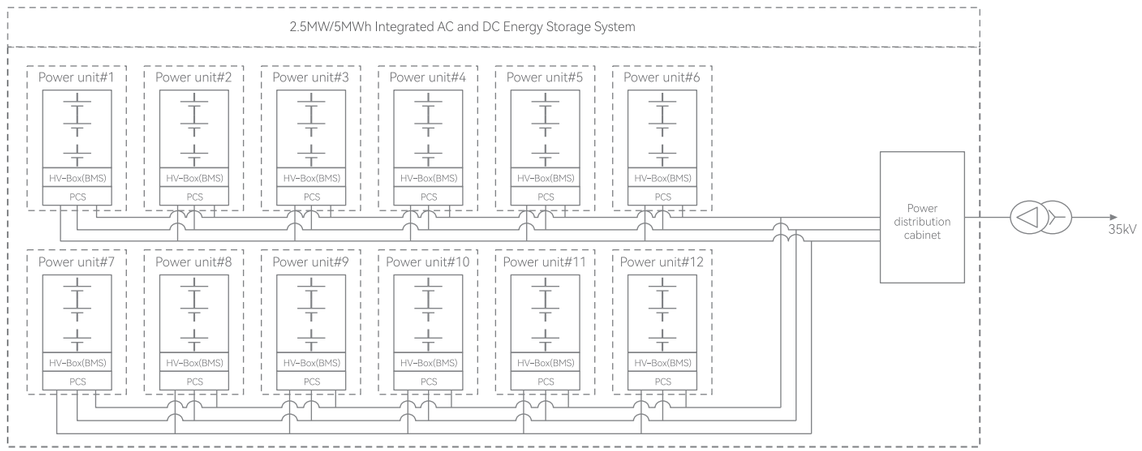

## Product Advantages

- The modular PCS solves the circulating current between battery racks
- The discharge amount of the whole life cycle is increased by 6~8% ， LCOE reduced by 3%~5%
- 20' standard container
- It increases energy density by 18%
- It reduces the footprint by 30%
- It reduces O&M time by 20%

## Applicable Scenarios

- Energy Storage Allocated by New Energy
- Frequency Modulation Service
- Independent Energy Storage
- C&I

## Topology




| Product Name | 2.5MW/5MWh Integrated AC and DC Energy Storage System |
|---|---|
| AC-side | |
| Rated AC Output Power | 2500kVA |
| Max. AC Output Power | 2750kVA |
| Max. Output Current | 2510A |
| Number of AC Input | 12 |
| Rated Output Voltage | 690V |
| Grid Type | 3P+PE |
| AC Grid Frequency | 50Hz(45Hz~55Hz) |
| Grid Voltage Range | 586.5V~759V |
| Power Factor | >0.99(Rated Power) |
| Adjustable Reactive Power Factor Range | -1~+1 |
| AC Current Distortion Rate | <3%(Rated Power) |
| Isolation Method | Non-isolated |
| DC-side | |
| Cell | LFP 3.2V/314Ah |
| System Battery Configuration | 12P416S |
| Battery Rated Capacity | 5015.96kWh |
| Battery Voltage Range | 1123.2V~1497.6V |
| System Parameters | |
| Dimensions (W x H x D) | 6058×2896×2438mm |
| Weight | ≤48T |
| IP Level | IP54 |
| Corrosion-proof Grade | C5 |
| Operating Temperature Range | -30℃~60℃ |
| Operating Humidity Range | 0%~95%(No Condensation) |
| Max. Operating Altitude | 4000m |
| Cooling Method | Liquid Cooling |
| Fire Protection System | Flammable Gas Detection + Active Ventilation + PACK-Level Fire Protection (optional) + Water Firefighting |
| System Communication Interface | LAN |
| External System Communication Protocol | ModbusTCP、IEC61850 |
| Certification | GB/T-34120、GB/T-44026、UL9540A、IEC62619-2022、IEC63056-2020、IEC/EN62477-1-2023、IEC62933-1-2024、UL1973-2022、UN38.3、IEC61000-6-2、IEC61000-6-4、EN50549-2 |

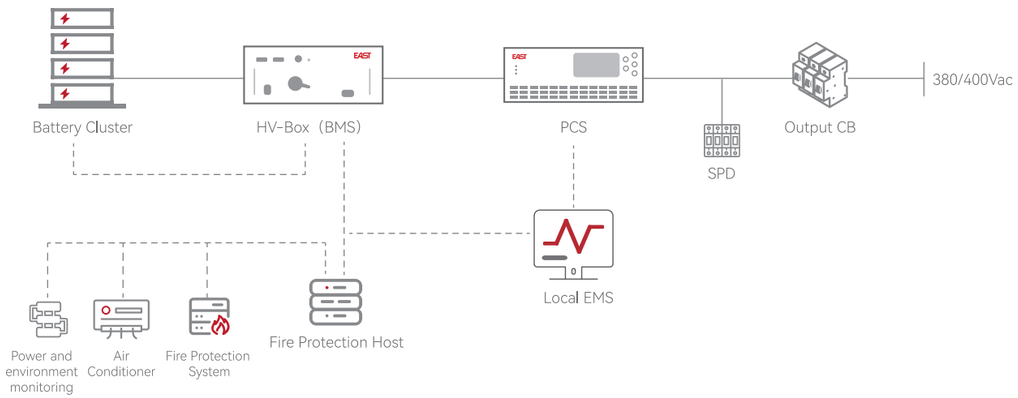
# EAST-Meta1000V C&I

# All-in-one Battery Energy Storage System

## Advantages

- The maximum efficiency of the system can reach 90%
- The temperature difference of the battery cell is less than 4°C
- PCS, battery, local EMS, temperature control and fire protection system integrated in a single cabinet for 1% reduction in losses
- The protection level of the whole cabinet is IP54, the core module is IP65, and the maximum anti-corrosion level can reach C5
- It has flexible configurations for parallel expansion of multiple products

## Topology




| Product Model | EAPCS100K-215kWh |
|---|---|
| DC-side | |
| Cell | 3.2V/280Ah |
| System Battery Configuration | 1P240S |
| Battery Rated Capacity | 215.04kWh |
| Battery Voltage Range | 648V~864V |
| AC-side | |
| Rated AC Active Power | 100kW |
| AC Current Distortion Rate | <3%(Rated Power) |
| DC Component | ≤0.5%(Rated Power) |
| Nominal AC Voltage | 400V |
| Grid Voltage Range | 340V~440V |
| Power Factor | >0.99(Rated Power) |
| Adjustable Reactive Power Factor Range | -105%~105% |
| Rated AC Grid Frequency | 50Hz |
| Grid Frequency Range | 45Hz~55Hz |
| Isolation Method | Non-isolated |
| System Parameters | |
| Dimensions (W x H x D) | 1400×2300×1560mm |
| Weight | 2500kg |
| IP Level | IP54 |
| Corrosion-proof Grade | C3(C5 is optional) |
| Operating Temperature Range | -30℃~50℃ |
| Operating Humidity Range | 0%~95%(No Condensation) |
| Max. Operating Altitude | 3000m |
| Battery Cooling Method | Smart Air Cooling |
| Fire Protection System | Aerosol, Water Firefighting |
| System Communication Interface | LAN |
| External System Communication Protocol | Modbus TCP |
| Certification | IEC/EN62477-1、IEC61000-6-2/IEC61000-6-4、UN38.3/EN50549-1、IEC60529 |

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*If there are any changes to the product size and parameters, the latest information shall prevail without further notice.

Our WeChat QR code