

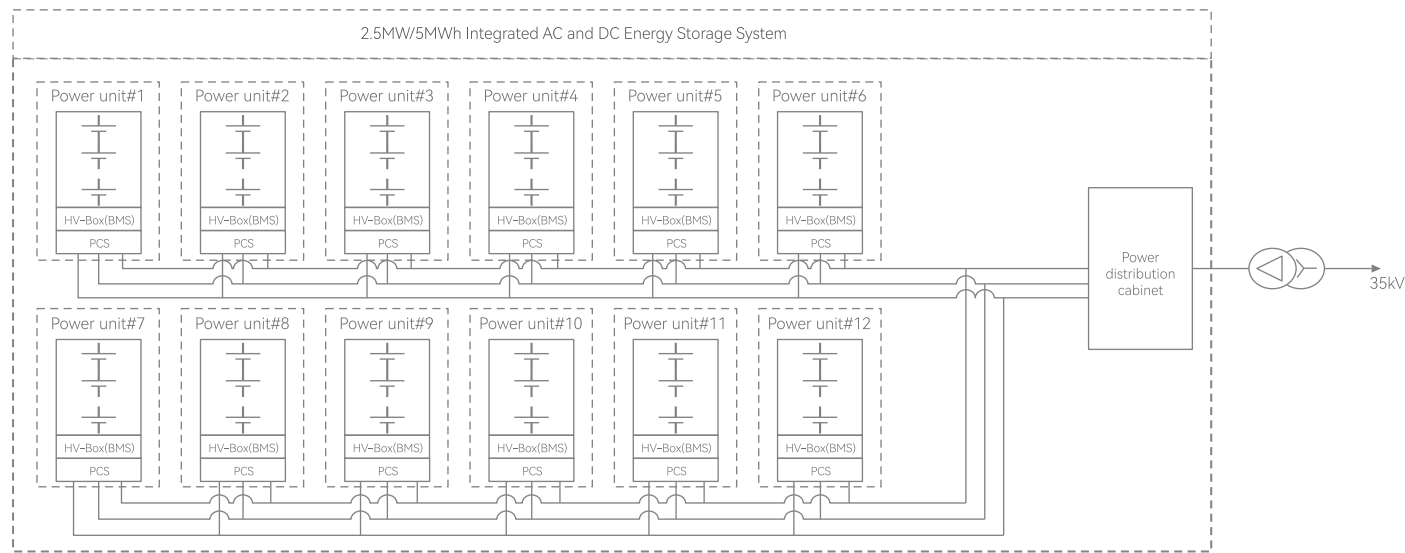
# 2.5MW/5MWh Integrated AC and DC Energy Storage System



## 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%

## Topology



## Applicable Scenarios

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

| 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                                                                                                                                                |
| Protection Degree                      | IP54                                                                                                                                                |
| 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 |