

## 241kWh On-grid Liquid-cooled ESS

241kWh On-grid Liquid-cooled ESS adapts an independent liquid cooling system to achieve higher energy density and heat dissipation capacity in a small volume, and has the advantages of high efficiency, low noise, safety, reliability and scalable ability. It can be applied to various scenarios, covering industrial parks, supermarkets, hotels, office buildings, data centers, solar charging stations and other fields, effectively reducing electricity costs and improving energy efficiency.



### ■ Product Features

#### Smart and friendly

- Real-time status monitoring and fault recording to achieve early warning and post-fault analysis
- Access to the cloud platform to support multi-device access and multi-user sharing

#### Efficient and flexible

- Adopts intelligent parallel control technology, supports unlimited capacity expansions
- Highly integrated, pre-assembled system, easy to transport and maintain

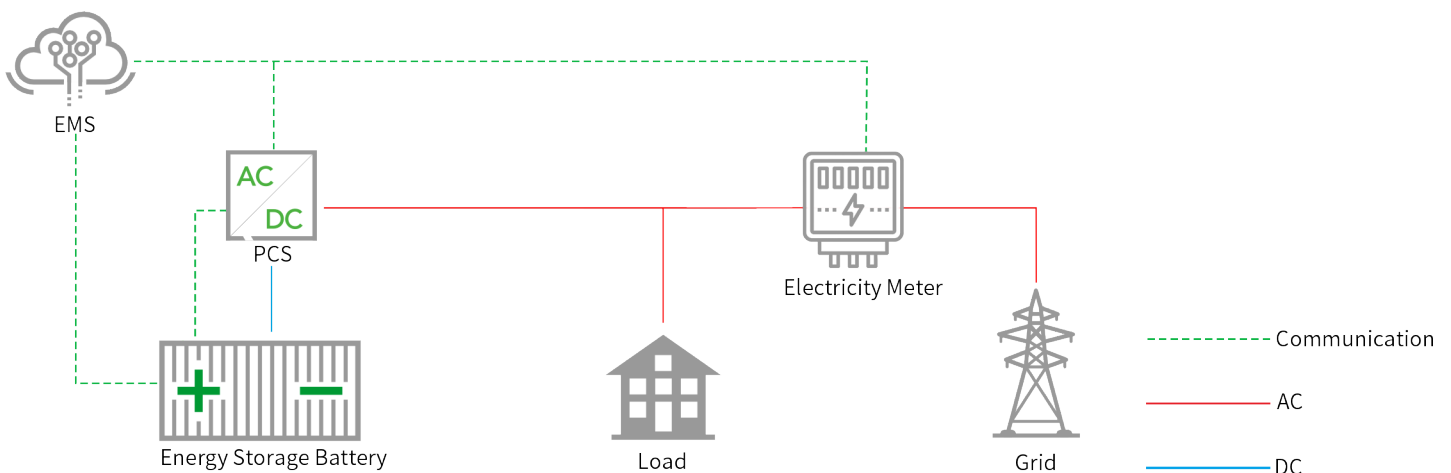
#### Safe and reliable

- PACK-level immersion fire protection technology
- Multiple circuit protection from short circuit, overvoltage, undervoltage, overload and overcurrent

#### Powerful performance

- Supports diversified application scenarios
- Supports long-term 110% overload use

### ■ Product Topology Diagram



## ■ Technical Specification

| MODEL                        | BATT-CI-125/241-L                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Scenarios        | On Grid                                                                                                                                                                              |
| BATTERY PARAMETER            |                                                                                                                                                                                      |
| Cell Type                    | LFP3.2V/314Ah                                                                                                                                                                        |
| Battery Module               | 48S1P/48.23kWh                                                                                                                                                                       |
| System Battery Configuration | 240S1P                                                                                                                                                                               |
| Nominal Voltage              | 768V                                                                                                                                                                                 |
| Voltage Range                | 648~864V                                                                                                                                                                             |
| Battery System Capacity      | 241.15kWh                                                                                                                                                                            |
| Charge/Discharge Rate        | 0.5P                                                                                                                                                                                 |
| Cycles Life                  | 7000                                                                                                                                                                                 |
| AC OUTPUT PARAMETER          |                                                                                                                                                                                      |
| Nominal Power                | 125kW                                                                                                                                                                                |
| Nominal Voltage              | 400V                                                                                                                                                                                 |
| Nominal Current              | 181A                                                                                                                                                                                 |
| Nominal Frequency            | 50Hz/60Hz                                                                                                                                                                            |
| Power Factor Range           | 0.9 leading~0.9 lagging                                                                                                                                                              |
| SYSTEM PARAMETER             |                                                                                                                                                                                      |
| System Efficiency            | 88%                                                                                                                                                                                  |
| Temperature Control Method   | Liquid Cooling                                                                                                                                                                       |
| Fire Fighting System         | Perfluorohexanone                                                                                                                                                                    |
| Operation Temperature        | -20~+55°C(>45°C derating)                                                                                                                                                            |
| Operation Humidity           | 0~95%(Non-condensing)                                                                                                                                                                |
| Operation Noise              | ≤75 dB(A) @3 m                                                                                                                                                                       |
| Max. Operation Altitude      | 4000m(>2000m derating)                                                                                                                                                               |
| Degree of Protection         | IP54                                                                                                                                                                                 |
| Communication Interface      | Ethernet                                                                                                                                                                             |
| Communication Protocol       | Modbus TCP/IP                                                                                                                                                                        |
| Weight                       | 2.65T                                                                                                                                                                                |
| Dimensions(W*D*H)            | 1400mm*1230mm*2100mm                                                                                                                                                                 |
| Certificate/Standard         | UN38.3,MSDS,IEC 62619,EN 62477,EN IEC 61000-6-2/EN IEC 61000-6-4,<br>G99,VDE-AR-N 4105,VDE-AR-N 4110,EN 50549-1/EN 50549-10,EN 50549-2,<br>C10/11,IEC 62116/IEC 61727,TOR type A+R25 |