

# PowerCore Liquid-cooling Energy Storage Container



## Superb safety

- Triple fire protection measures guarantee early detection, accurate spraying, and rapid fire suppression throughout the entire process.
- Big data intelligent fire monitoring system features panoramic surveillance and fire risk warning; risks spotted in advance, and rapid response taken across the system.



## High economic efficiency

- 315Ah LFP cells with high energy density and prolonged cycle life realize a cost reduction per kWh of 30%.
- 5MWh in one 20ft container; side-by-side arrangement; saving over 40% of the project area.



## Increasing flexibility

- Flexible system topology for various scenarios, including the power generation side, grid side, and user side.
- Modular design enables flexible capacity and configuration.

| Product Model                     | PowerCore  |
|-----------------------------------|--|
| <b>Cell parameters</b>            |  |
| Cell type                         | LFP  |
| Cell capacity                     | 315Ah  |
| <b>Pack parameters</b>            |  |
| Cell configuration                | 1P104S   |
| Pack rated voltage                | 332.8V   |
| Pack rated energy                 | 104.832kWh   |
| <b>Rack parameters</b>            |  |
| Rack battery configuration        | 1P416S   |
| Pack qty                          | 4  |
| Rack rated energy                 | 419.328kWh   |
| <b>System parameters</b>          |  |
| System battery configuration      | 12P416S  |
| Rated energy (BOL) at DC side     | 5031kWh  |
| System output voltage range       | 1164.8Vdc~1476.8Vdc  |
| Rate for charging and discharging | ≤0.5P  |
| Dimensions (W*H*D)                | 20ft (6058mm * 2896mm * 2438mm)  |
| Weight                            | 43t  |
| Level of protection               | IP55   |
| Anti-corrosion grade              | C4   |
| Operating ambient humidity        | 0%~95% (non-condensing)  |
| Operating ambient temperature     | -20°C~55°C (derated when the operating temperature is over 45°C)               |
| Max. operating altitude           | 4000m (derated when the operating altitude is over 2000m)                      |
| Cooling method                    | Liquid-cooling   |
| Fire protection                   | Aerosol + combustible gas detection + ventilation + water extinguishing system |
| Communication interface           | LAN  |
| Communication protocol            | Modbus TCP   |
| Certification                     | IEC62619, IEC63056, IEC62477, EN61000, UL1973, UL9540A, UN38.3                 |