

# 418kWh Energy Storage DC Cabinet

HD-418-2



## Safe & Reliable

- **Triple-Layer Fire Protection** Comprehensive fire detection and suppression
- **IP54 & C4 Rated** Built for harsh outdoor environments



## High-Capacity Performance

- **418kWh Energy Storage** More energy in a compact footprint
- **314Ah LFP Cells** Long cycle life with enhanced safety



## Superior Thermal Control

- **≤3°C Temperature Difference** Maximized battery consistency and lifespan
- **Liquid Cooling Technology** Higher efficiency with lower energy consumption



## Smart & Flexible

- **Advanced EMS** Peak shaving, load shifting and demand management
- **Open Communication** Compatible with mainstream PCS and monitoring platforms



Advanced Microgrid



Diesel Replacement



Seamless On/Off-Grid



Direct DC-Coupling

| Model                            | HD-418-2                                                                |
|----------------------------------|-------------------------------------------------------------------------|
| Battery Side                     |                                                                         |
| Cell Type                        | LFP Lithium Iron Phosphate                                              |
| Rated Cell Capacity              | 314Ah                                                                   |
| Cell Nominal Voltage             | 3.2V                                                                    |
| Cell Rated Energy                | 1004.8Wh                                                                |
| Pack Configuration               | 1P52S                                                                   |
| System Configuration             | 1P416S                                                                  |
| Pack Rated Energy                | 52.249kWh                                                               |
| System Rated Energy              | 417.996kWh                                                              |
| System Nominal DC Voltage        | 1331.2VDC                                                               |
| Operating Voltage Range          | 1040~1497VDC                                                            |
| Rated Current                    | 157A                                                                    |
| Charge/Discharge Rate            | 0.5P                                                                    |
| Balancing Mode                   | Passive Balancing                                                       |
| System Side                      |                                                                         |
| Fire Protection System           | Cabin-level aerosol + Pack-level aerosol + Water-based fire suppression |
| Cabinet Dimension (W×D×H)        | 1400×1420×2360mm                                                        |
| Total Cabinet Weight             | 3800kg                                                                  |
| IP Rating                        | IP54                                                                    |
| Corrosion Resistance Rating      | C4                                                                      |
| Cooling Method                   | Liquid Cooling                                                          |
| External Communication Interface | RS485, LAN, CAN                                                         |
| Operating Temperature            | -30~55°C (Charge:0~55°C; Discharge:-30~55°C)                            |
| Operating Humidity               | 4% ~ 100% RH, non-condensing environment                                |
| Altitude                         | ≤2000m (power derating required above 2000m)                            |

System Schematic Diagram

