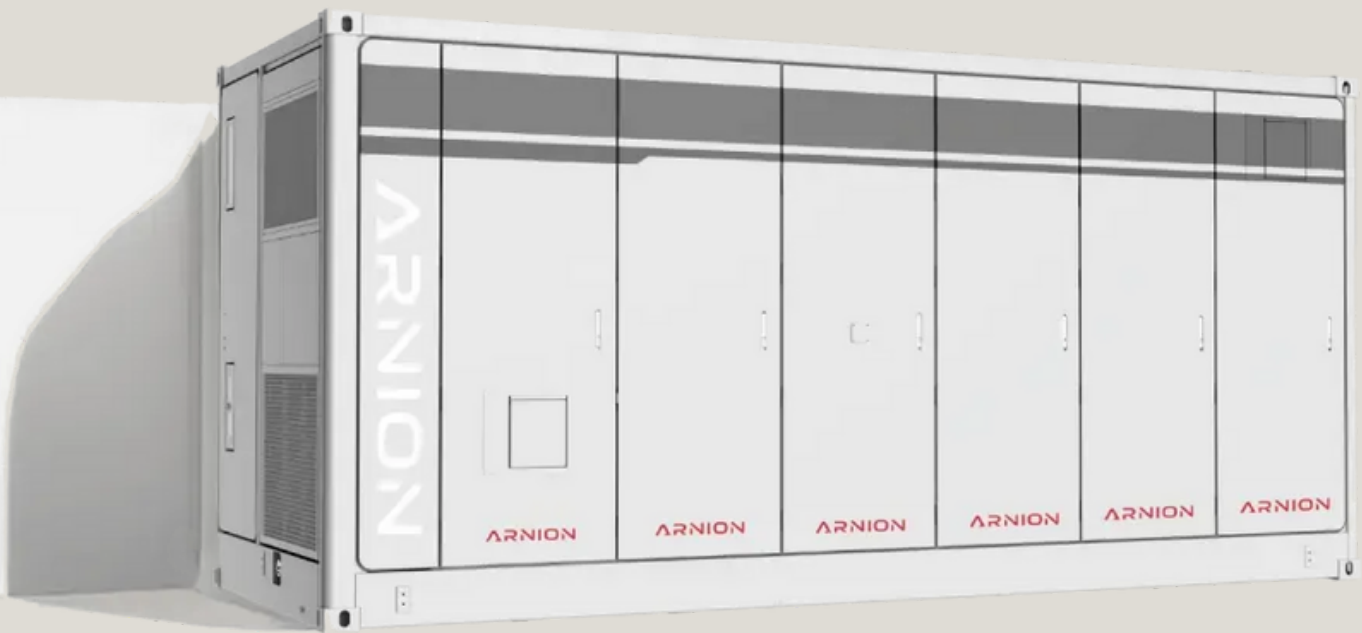




## Arnion-C2.5 Liquid-Cooled System

### Excellent Safety

Long fire endurance with TS-800 certification

Multi-level electrical protection and fire protection design

Arc-flash and synergistic protection functions

### Excellent Stability

IEEE693 high-level seismic design

PCS battery unit management (for string PCS version)

Advanced biometric heat dissipation technology

### Excellent Performance

Active balancing throughout the entire BESS chain (cell, pack, enclosure)

Higher energy density, lower LCOE, higher revenue

Higher environmental tolerance for desert, highland and humidity

Pre-assembled, no battery module handling on site

### Smart Management

Real time monitoring

Rapid positioning and analysis of system faults

Intelligent operation and maintenance

| Arnion-C2.5S-5015-2500-2h   |                                                                                                                                                                                                                                 |           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| DC-side Parameters          |                                                                                                                                                                                                                                 |           |
| Nominal Capacity            | 5015 kWh                                                                                                                                                                                                                        |           |
| Cell Type                   | LFP3.2 V/314 Ah                                                                                                                                                                                                                 |           |
| System Configuration        | 1P416S*12                                                                                                                                                                                                                       |           |
| Battery Voltage Range       | 1123.2-1497.6 V                                                                                                                                                                                                                 |           |
| Nominal Battery Voltage     | 1331.2 V                                                                                                                                                                                                                        |           |
| AC-side Parameters          |                                                                                                                                                                                                                                 |           |
| Nominal Power               | 215 kW 12                                                                                                                                                                                                                       | 107 kW 12 |
| Max. THD of Current         | <3 % (Nominal Power)                                                                                                                                                                                                            |           |
| DC Component                | < 0.5%                                                                                                                                                                                                                          |           |
| Nominal Voltage             | 690 V                                                                                                                                                                                                                           |           |
| AC Voltage Range            | 607 V ~759 V                                                                                                                                                                                                                    |           |
| Power Factor                | ≥ 0.99 (Nominal Power)                                                                                                                                                                                                          |           |
| Nominal Frequency           | 50 Hz/60 Hz                                                                                                                                                                                                                     |           |
| System Parameters           |                                                                                                                                                                                                                                 |           |
| Auxiliary Power Supply      | 400 V / 480 V                                                                                                                                                                                                                   |           |
| SOC Calculation Accuracy    | ≤3% (After Balancing)                                                                                                                                                                                                           |           |
| Operating Temperature Range | -30 °C 50 °C (>45 °C Derating)                                                                                                                                                                                                  |           |
| Relative Humidity           | 100% RH (Non-condensing)                                                                                                                                                                                                        |           |
| Max. Working Altitude       | 4000 m                                                                                                                                                                                                                          |           |
| Protection Grade            | IP 55 (Europe) Type 3S (US)                                                                                                                                                                                                     |           |
| Cooling Method              | Intelligent Liquid Cooled                                                                                                                                                                                                       |           |
| Noises                      | 75 dB (A), Standard Version<br>≤ 65 dB (A), Silencer Assembly (Optional)                                                                                                                                                        |           |
| Weight                      | ≤ 44000 kg                                                                                                                                                                                                                      |           |
| Corrosion-proof Grade       | C4/C5 (Optional)                                                                                                                                                                                                                |           |
| Seismic Level               | IEEE 693 Moderate Design Level Qualification<br>IEEE 693 High Design Level Qualification (Optional)                                                                                                                             |           |
| Snow/Ice Loads              | 30 lb/sqft                                                                                                                                                                                                                      |           |
| Wind Loads                  | 129 mph                                                                                                                                                                                                                         |           |
| Dimensions (W*D*H)          | 6058*2438*2896mm                                                                                                                                                                                                                |           |
| Fire Suppression System     | Fire Control Alarm Panel, Smoke and Heat Detector, Audible and Visual Alarm, Ventilation System (NFPA 69 compliance for US), Dry Pipes with Sprinklers, Aerosol (Optional),<br>Vent Panel (Optional, NFPA 68 compliance for US) |           |
| Communication Interface     | Ethernet (RJ45 / Optical Fiber)                                                                                                                                                                                                 |           |
| Compliance (US)             | UL1973, UL 9540A, UL9540, UL 1741SB, IEEE1547<br>NFPA 855, NFPA 69, NFPA68 (Optional)                                                                                                                                           |           |
| Compliance (Europe)         | IEC61000, IEC62619, IEC62933, IEC63056, IEC62477-1, EN50549<br>C99, CEI 0-16, VDE-AR-N 4110, VDE-AR-N 4120, NTS 2.1, NTS SENP 1.1                                                                                               |           |

