# FRA1-96K

## Commercial-Industrial Energy-Storage Battery Cabinet




- Intelligent air-cooling & AC thermal-control design ensures stable battery operation under harsh conditions
- Built-in BMS, fire-protection, multi-sensor detection and explosion-proof ventilation design
- IP55 protection grade and C4 anti-corrosion grade for outdoor commercial-industrial scenarios, ensuring reliable operation
- Compatible with PV, grid, diesel generator and load systems, improving energy-utilization efficiency and power-supply reliability



| Battery Parameters | |
|---|---|
| Cell Chemistry | LFP/ 314Ah |
| Rated Energy | 96kWh |
| Rated Voltage | 307.2V |
| Voltage Range | 268.8V~ 345.6V |
| Cycle Life | ⩾ 6000 Cycles @25°C 80%DOD |
| Configuration | 1P96S |
| **General Parameters** | |
| Dimension(W×D×H) | 730x 1235 x 1949mm |
| Weight | 1015kg |
| Operating Temperature Range | -10°C ~55°C (Derating above 45°C ) |
| Operating Humidity Range | 0~95% RH (Non-condensing) |
| Safety Protection | Automatic Current Balancing in Parallel Operation, AC Overcurrent Protection, AC Short-Circuit Protection, Anti-islanding Protection, DC Reverse Connection Protection. |
| IP Rating | IP55 |
| Anti-corrosion Grade | C4 |
| Cooling | Smart Air Cooling |
| Air-conditioner Power | 1.5kw |
| Noise | ⩽ 70dB |
| Altitude | <3,000m (Derating above 2,000m) |
| Fire-protection | Aerosol, Multi-sensor/ Water Ingress Detector, Explosion-Proof Ventilation |
| Communication | RS485/CAN |
| Certifications | CE, RoHS, UN38.3，MSDS，IEC62619 |

FRA1-96K is a 96 kWh commercial-industrial energy-storage battery cabinet adopting LFP cells, with integrated BMS, thermal management, fire-protection and communication systems. It can flexibly match PCS, inverters, PV systems and diesel generators, suitable for commercial-industrial peak-shaving, backup power, PV-storage and micro-grid projects.