Commercial
& Industrial Battery ESS Cabinet

Model: FRA1-241K
100kW/ 241kWh

- Multiple cabinets can be combined for larger C&I or MWh-scale energy storage projects.
- IP55 protection and C4 anti-corrosion design support reliable outdoor operation in industrial environments.
- Integrated BMS monitoring, thermal management, fire suppression, and ventilation enhance cabinet-level safety.
- Flexible matching with different PCS or inverter solutions according to project power and system requirements.

Green energy, better life.

Battery Parameters	
Battery Type	LFP / 314 Ah
Rated Energy	241 kWh
Rated Battery Voltage	768 V
PCS Voltage Range	650 ~ 876 V
System Parameters	
Dimensions (W x H x D) (mm)	1200*1315*2195mm
Net Weight (kg)	2,800 kg
Operating Temperature Range (° C)	-30 ~ 50° C (> 45° C derating)
Relative Humidity	0~95% RH (non-condensing)
Relative Humidity	3,000 m
Cooling Concept	Smart air cooling
Safety Protection	Bidirectional Active Balancing, Thermal Management, Real-Time Voltage and Temperature Monitoring.
Ingress Protection	IP55
Certifications	IEC62619, IEC63056, IEC61000, IEC62477-1, IEC62040,UN38.3
Communication Protocol	Modbus TCP
Anti-Corrosion Degree	C4 (C5 optional)
Configuration of Safety	Gas fire suppression + Water-based fire suppression + Ventilation

The FRA1-241K is a 241kWh C&I battery ESS cabinet using LFP 314Ah cells and integrated with BMS, safety monitoring, smart air cooling, fire protection, and communication systems. It can be flexibly matched with PCS, PV systems, diesel generators, and EMS, making it suitable for factories, industrial parks, cold chain logistics, charging stations, distributed PV projects, and microgrids.