241kWh On-grid Air-cooled ESS

241kWh On-grid Air-cooled ESS design concept, integrating all components into a standard cabinet. It is suitable for various commercial and industrial energy storage scenarios, including industrial parks, supermarkets, hotels, office buildings, data centers, and solar charging stations. This system effectively reduces electricity costs, improves energy efficiency, and ensures the continuous operation of critical equipment.

Product Features

Smart and friendly

- Real-time status monitoring and fault recording to achieve early fault warnings and post-event analysis
- Cloud platform integration supports multi-device access and multi-user sharing

High Efficiency and Flexibility

- Modular design supports parallel connections, facilitating system expansion
- Highly integrated and pre-assembled system for easy transportation and maintenance

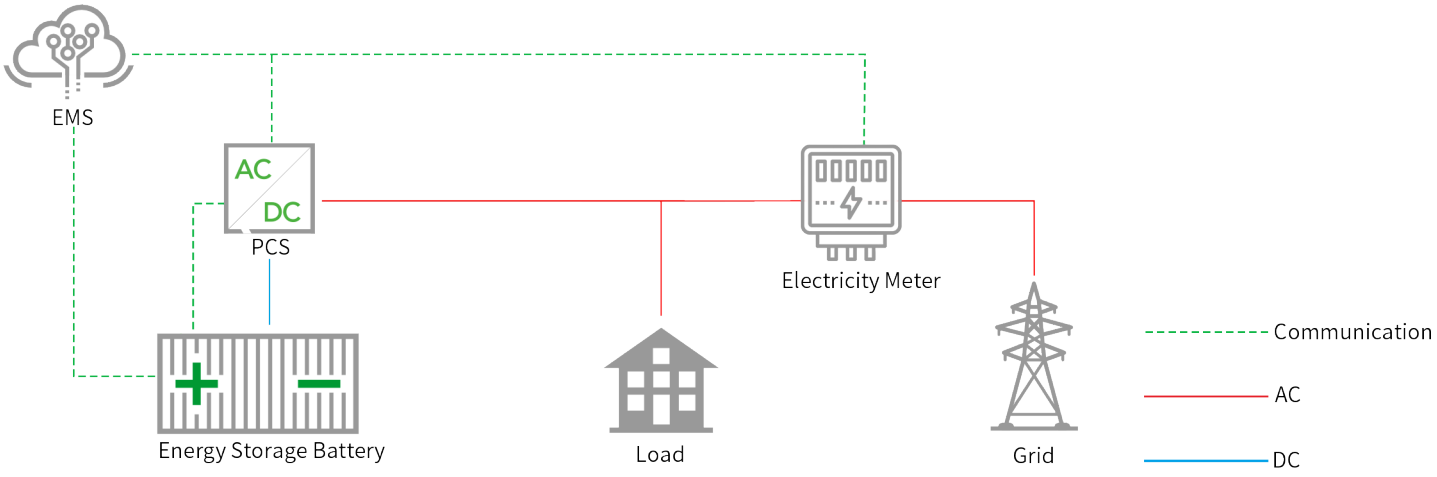
Safety and Reliability

- Zonal isolation within the energy storage system ensures active safety monitoring
- Multiple circuit protection mechanisms, including short circuit, over-voltage, under-voltage, overload, and overcurrent protection

Powerful Performance

- Supporting peak shaving and valley filling, demand regulation, and various application scenarios
- Supports long-term 110% overload use

Product Topology Diagram



CE CB UN38.3 MSDS

Technical Specification

MODEL	BATT-CI-100 /241
Application Scenarios	On Grid
BATTERY PARAMETER	
Cell Type	LFP 3.2V314Ah
Battery Module	20S1P/20.096kWh
System Battery Configuration	240S1P
Nominal Voltage	768V
Voltage Range	648~864V
Battery System Capacity	241.15kWh
Charge/Discharge Rate	0.5P
Cycles Life	6000
AC OUTPUT PARAMETER	
Nominal Power	100kW
Nominal Voltage	400V
Nominal Current	152A
Nominal Frequency	50Hz/60Hz
Power Factor Range	0.9 leading~0.9 lagging
SYSTEM PARAMETER	
System Efficiency	88%
Temperature Control Method	Air Cooling
Fire Fighting System	Perfluorohexanone
Operation Temperature	-20~+55°C(＞45°C derating)
Operation Humidity	0~95%(Non-condensing)
Operation Noise	⩽75 dB(A) @3 m
Max. Operation Altitude	4000m(＞2000m derating)
Degree of Protection	IP54
Communication Interface	Ethernet
Communication Protocol	Modbus TCP/IP
Weight	2.6T
Dimensions(W*D*H)	1520mm*1480mm*2000mm
Certificate/Standard	UN38.3,MSDS,IEC 62619,EN 62477,EN IEC 61000-6-2/EN IEC 61000-6-4,G99, VDE-AR-N 4105,EN 50549-1/EN 50549-10,EN 50549-2,C10/C11,TOR,NA/EEA-NE7-CH, AS4777.2,PPDS,NRS 097-2-1