# 120kWh Micro-grid Air-cooled ESS


120kWh Micro-grid Air-cooled ESS adopts an "All-in-One" 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

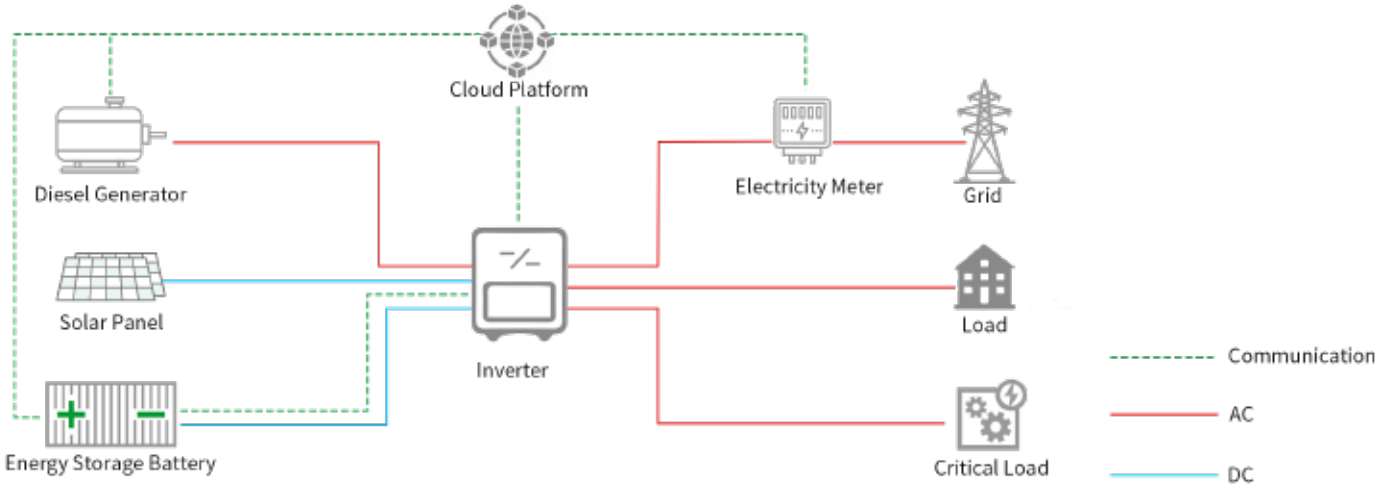
### Safety and Reliability

- 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

- Supports on-grid and off-grid applications
- Supports long-term 110% overload use

## Product Topology Diagram



CE CB UN38.3 MSDS

# Technical Specification

| MODEL | BATT-CI-30/120-P | BATT-CI-50/120-P |
|---|---|---|
| Application Scenarios | On Grid/Off Grid | |
| **BATTERY PARAMETER** | | |
| Cell Type | LFP3.2V/314Ah | |
| Battery Module | 20S1P/20.09kWh | |
| System Battery Configuration | 120S1P | |
| Nominal Voltage | 384V | |
| Voltage Range | 324~432V | |
| Battery System Capacity | 120.58kWh | |
| Charge/Discharge Rate | 0.5P | |
| Cycles Life | 6000 | |
| **PV PARAMETER** | | |
| Max. Input Power | 60kW | 96kW |
| MPPT Operating Voltage Range | 150~850V | |
| Maximum Input Current | 3*40A | 4*40A |
| Number of MPPT/Max. Number of Input Strings | 3/6 | 4/8 |
| **AC OUTPUT PARAMETER** | | |
| Nominal Power | 30kW | 50kW |
| Nominal Voltage | 400V | |
| Nominal Current | 43.3A | 72.2A |
| Nominal Frequency | 50Hz/60Hz | |
| Power Factor Range | 0.8 leading~0.8 lagging | |
| **SYSTEM PARAMETER** | | |
| System Efficiency | 86% | |
| 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 Protocol | 4G,WIFI | |
| Max.Parallel Quantity (off-grid ) | 6 | |
| Weight | 1.3T | |
| Dimensions(W*D*H) | 1020mm*1280mm*1960mm | |
| 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,VDE 0126/UTE C 15/VFR:2019,NTS 631/RD 1699/RD 244/UNE 206006/UNE 206007-1, CEI 0-21,C10/11,NRS 097-2-1,TOR,EIFS 2018.2,IEC 62116/IEC 61727,IEC 60068,IEC 61683,EN 50530,MEA,PEA, PORTARIA Nº 140,DE 21 DE MARÇO DE 2022 | |