

EGS120 BESS Cabinet

datasheet

· **Category:**

Air Cooling BESS Cabinet

· **Application:**

Remote Area, EV Station, Industrial & Commercial, Residential, Frequency Regulation, Power Station

· **Benefits:**

Enhanced Grid Reliability and Resilience, Cost Savings, Environmental Benefits, Energy Independence, Improved Power Quality, Scalability and Flexibility, Support for Electrification

· **Hardware:**

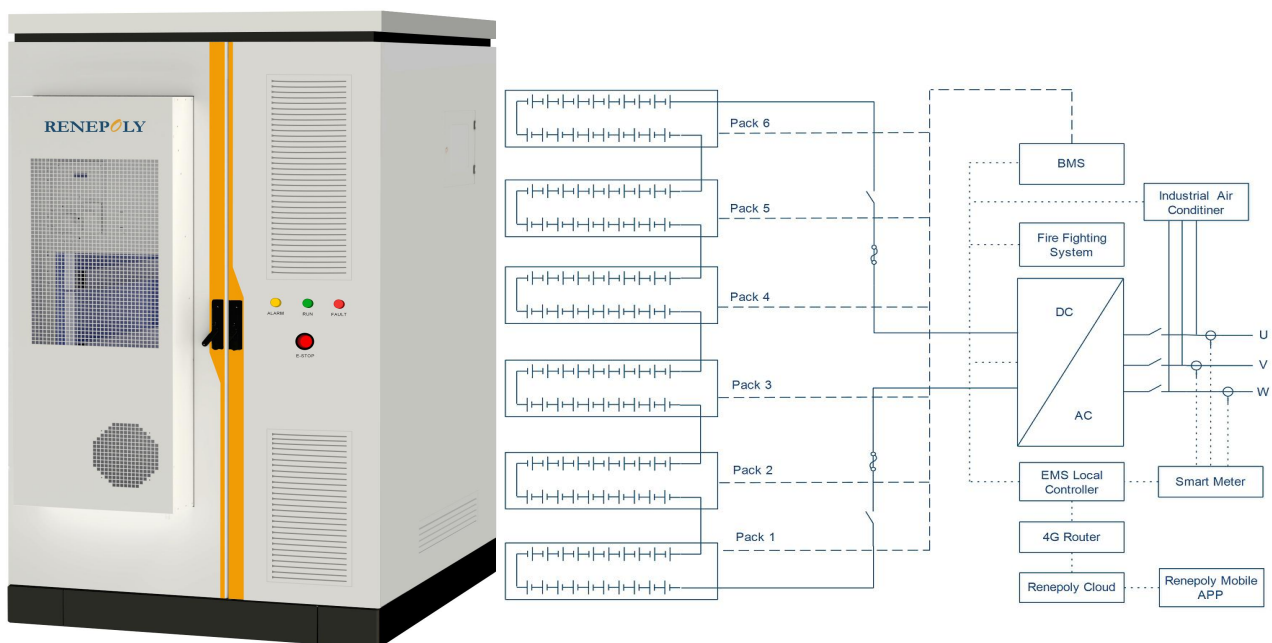
Packs, BMS, HV Box, PCS, PDU, FFS, EMS Controller Set, Enclosed Cabinet

· **Software:** BMS, EMS

· **Cloud Platforms:** Renepoly Cloud

· **Data Sheet:** EGS120 Cabinet Datasheet

· **User Manual:** EGS120 Cabinet User Manual



## Technical Parameters

### BATTERY SIDE PARAMETERS

Battery Type	LFP-3.2V1314Ah
Battery Series-parallel Connection	1P120S
Charge/discharge Ratio	0.5P
Rated Total Energy	120.576KWh
Rated Voltage	384V
Voltage Range	300V-438V
Cooling Method	Air cooling
Cycle Times	6000 @80% SOH/25°C/0.5P

### DC SIDE PARAMETERS

Recommended Maximum Pv Module Power	100kW
Maximum Input Voltage	1000V
Rated Input Voltage	600V
Start-up Voltage	180V
MPPT Voltage Range	150V-850V
Number of MPPTs/Maximum number of input Strings	418
Maximum MPPT Input Current	4x40A

### Batteries

Nominal Battery Voltage	768VDC
Battery Type	LiFePO4 3.2V/280Ah
Battery Pack Configuration	1P60S/53.76kWh
Battery System Configuration	1P240S
Capacity	215.04kWh
Battery Voltage Range	672-852VDC
Max Charging/Discharging Current	140A
Battery Disconnect	Integrated
Cooling concept of battery chamber	Liquid Cooling

### AC SIDE PARAMETERS

Rated Power	50kW
Total Current Waveform Distortion Rate	≤3%
Maximum Output Current	76A
Rated Voltage	3/N/PE,220V1380Y,230V1400V
Rated Frequency	50/60Hz
Power Factor	>0.99(0.8 ahead ...0.8 lagging)

### SYSTEM PARAMETER

Dimensions(W*D*H)	1522*1164*2000mm(including air conditioner)
Weight	
Protection Grade	IP55
Fire Protection System	Aerosol Fire Extinguishers
Anti-corrosion Grade	C3
Communication Interface	RS485/CAN
Cooling Method	Intelligent Air cooling
Ambient Temperature	-20~55°C
Environmental Humidity	0~95%RH.No condensation
Working Altitude	4000≥ 22000m Derating

Add: U3 Building, No.6 Lianpu Street, Huangpu District, Guangzhou, China

Tel: +86 (020)31800796 Email: Info@renepoly.com

<https://www.renepoly.com>

# The three components of the RENEPOLY Battery Energy Storage System

**BESS cabinet / BESS Container, Energy Management System and ReneCloud / ReneApp & energy services**



## 1. BESS cabinet / BESS Container

A business that generates and uses its own energy is well on the way towards independence. In trades, gastronomy or agriculture – whatever your line of business, RENEPOLY battery storage systems reduce your dependence on energy suppliers and make you less vulnerable to price fluctuations and interruptions in supply.

Interested in RENEPOLY BESS Products? Simply scan the QR code to subscribe and access all the info you need about our products and special offers.



## 2. Microgrid Energy Management System

Energy flows can be recorded, controlled and monitored with the innovative RENEPOLY energy management system – consisting of the RENEPOLY Energy Manager System cabinet and the ReneCloud portal.

Want to explore renewable energy sources further? In a hurry? Book a meeting with us now—just scan the QR code right now. We can provide a free analysis and tailored one-stop solutions based on your needs. Looking forward to seeing you there!



## 3. ReneCloud / ReneApp and energy services

By setting individual operational strategies, you can combine a wide variety of applications and thus perfectly adapt the system to the needs of commerce and industry.

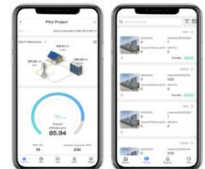
Curious about ReneCloud? Scan the QR code right now, register for a test account, and explore all the features of our energy management solution at your own pace. And if you need any help, we're happy to assist!



ReneCloud



APP Android download



ReneApp

This data sheet is strictly informational and is not legally binding. The exact specifications and/or product features (particularly in case of further development of the products) may differ somewhat from the information provided here. Subject to errors and changes. Please read the safety and installation instructions carefully and completely before using the product. In case of purchase, the currently valid guarantee policies and the general terms and conditions of delivery and business of RENEPOLY apply.

Add: U3 Building, No.6 Lianpu Street, Huangpu District, Guangzhou, China

Tel: +86 (020)31800796 Email: [Info@renepoly.com](mailto:Info@renepoly.com)

<https://www.renepoly.com>