

EGS120 BESS Cabinet

datasheet

· **Category:**

Liquid 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:**

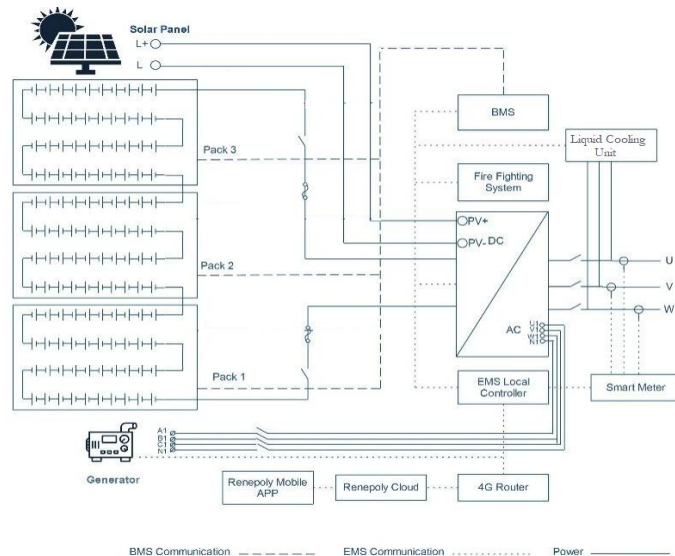
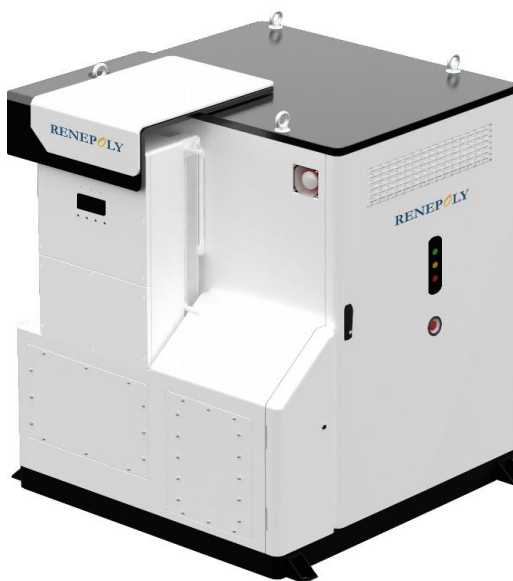
Packs, BMS, HV Box, PCS, PDU, FFS, EMS Controller Set, Enclosed Cabinet

· **Software:** BMS, EMS

· **Cloud Platforms:** Renepoly Cloud

· **Data Sheet:** EGS120 Cabinet Datasheet

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



Technical Parameters

AC Side (Grid Tied Scenario)

AC Output Power	50kW
Max. AC Current	72.2A
Nominal AC Voltage / Range	3/N/PE, 220 V / 380 V, 230 V / 400 V
Nominal Grid Frequency/Range	50Hz/60Hz
Harmonic(THD)	<3% (at Nominal Power)
Power Factor at Nominal Power	>0.99(-0.8 ~ 0.8)
Cooling Concept of PCS Chamber	Air Cooling
Seamless Switching from Grid to BESS In Case of Power Outage	Optional

AC Side (Microgrid Scenario)

Nominal AC Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Harmonic (THD)	< 2% (Resistance Load)
Nominal Frequency/Range	50Hz/60Hz
Max. AC Power	55kW

PV Side

Solar PV MPPT	100kW
Solar PV Max. DC Voltage	1000V
Solar PV Norminal DC Voltage	600V
MPPT Voltage Range	150-850V
Max. Input Current	4x40A
Max. Input Short-circuit Current	4x60A
MPPT No.	4/8

Generator Side

Max. Input Power	50kW
Norminal Input Current	72.2A
Norminal Input Voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V
Nominal Frequency/Range	50Hz/60Hz

Battery Side

Nominal Battery Voltage	384VDC
Battery Type	LiFePO4 3.2V/314Ah
Battery Pack Configuration	1P40S/40.192kWh
Battery System Configuration	1P120S
Capacity	120.576kWh
Battery Voltage Range	336-432VDC
Max Charging/Discharging Current	157A
Battery Disconnect	Integrated
Cooling concept of battery chamber	Liquid Cooling

General Parameters

Dimension W*D*H	1415*1350*1700mm
Charge/Discharge Rate	0.5C
Depth of Discharge	80%
Life Cycle	6000 @80% SOH/25°C/0.5P
Degree of Protection	IP55
System Efficiency	~90% (Without Auxiliary Equipment Energy Consumption)
Fire Protection System	Aerosol
Allowed Ambient Temperature	-20 ~ 55°C
Allowed Relative Humidity	0 ~ 95%
Working Altitude	<2000m
Enclosure Corrosion Resistance Level	C3 (C4/C5 Optional)
Weight	~1600kg
SPD	DC TYPE II/AC TYPE II
Lifting Options	Fork/Crane
Scalability	Yes, Units Can Be Connected In Parallel

Monitoring

Display	7 Inches Touchscreen
Communication	RS485/Ethernet
Communication Protocols	MODBUS-RTU/MODBUS-TCP
Remote Control System	Renepoly Cloud

Certifications

Battery Cell	CE, RoHS, UN38.3, MSDS, UL, ESG
Battery Pack	CE, UN38.3, MSDS
Battery Rack	CE, UN38.3, MSDS
Power Conversion System	G99, VDE-AR-N 4105/VDE V 0124, 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, IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011
Whole Unit	CE, UN38.3, MSDS

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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.

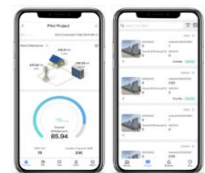
Curious about ReneCloud?
Scan the QR code right now, register for a test account, and explore all the features of our energy management solution at your own pace. And if you need any help, we're happy to assist!



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.

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