

ES215 BESS Cabinet (0.5C)

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

- Hardwares:

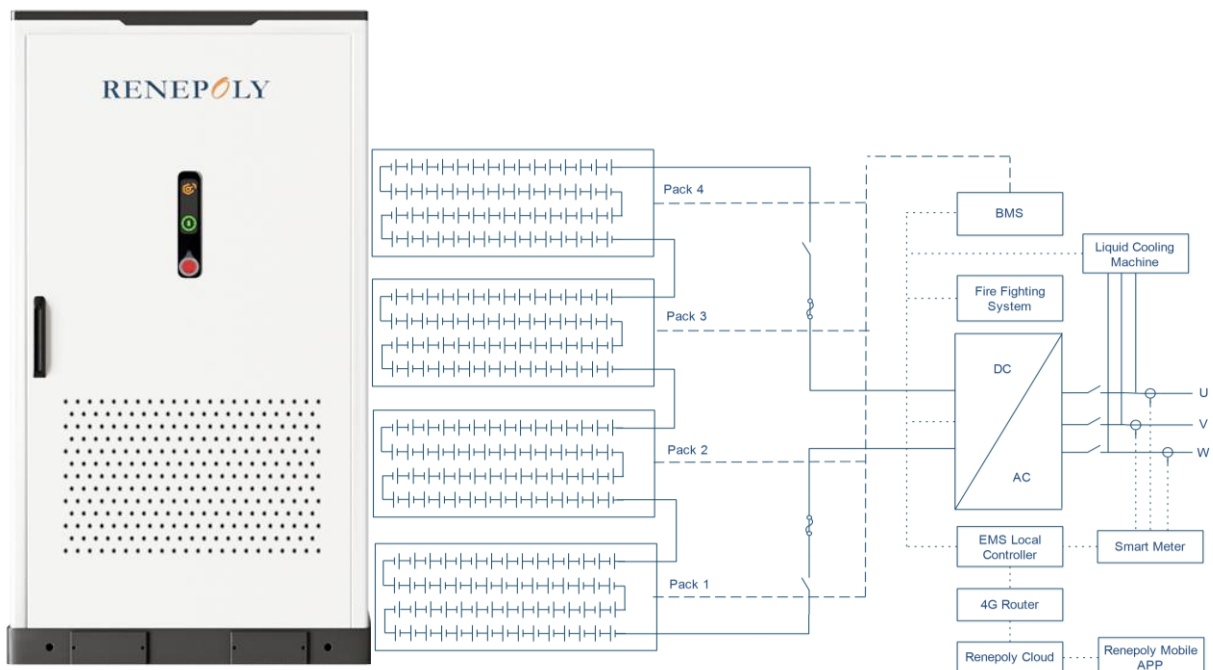
Packs, BMS, HV Box, PDU, FFS, EMS Controller Set, Enclosed Cabinet

- Software: BMS, EMS

- Cloud Platforms: Renepoly Cloud

- Data Sheet: ES215 Cabinet Datasheet

- User Manual: ES215 Cabinet User Manual



## Technical Parameters

### 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              | 672-864VDC         |
| Max Charging/Discharging Current   | 140A               |
| Battery Disconnect                 | Integrated         |
| Cooling concept of battery chamber | Liquid Cooling     |

### General Parameters

|                                      |   |
|--------------------------------------|---|
| Dimension W*D*H                      | 1050*1600*2050mm                                      |
| Charge/Discharge Rate                | 0.5C  |
| Depth of Discharge                   | 95%   |
| Life Cycle                           | 6000  |
| Degree of Protection                 | IP55  |
| System Efficiency                    | ~91% (Without Auxiliary Equipment Energy Consumption) |
| Cooling Liquid                       | 50% Ethylene glycol+50% Water                         |
| Fire Protection System               | Aerosol   |
| Allowed Ambient Temperature          | -30 ~ 60°C (>45°C Derating)                           |
| Allowed Relative Humidity            | 0 ~ 95%   |
| Working Altitude                     | <2000m  |
| Enclosure Corrosion Resistance Level | C4 (C5 Optional)                                      |
| Weight                               | ~2500kg   |
| 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 | CE, EN50549-1, EN50549-2, NRS097-21-1:2017, VDE4105, VDE4110, VDE4120, C10/11:2019, G99, PN50549, EIFS2018:02, CEI021/16, NTS632:2019 |
| 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.

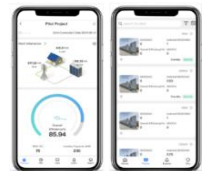
Curious about ReneCloud?  
Scan the QR code right now, register for a test account, and explore all the features of our energy management solution at your own pace. And if you need any help, we're happy to assist!



ReneCloud



APP Android download



ReneApp

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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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