

## PCS420 Cabinet

## datasheet

**- Category:**

Air Cooling PCS Cabinet

**- Application:**

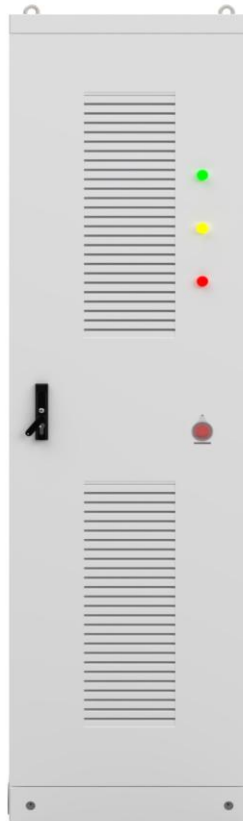
Remote Area, EV Station, Industrial & Commercial, Residential, Frequency Regulation, Power Station

**- 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, PCS, PDU, FFS, EMS Controller Set, Enclosed Cabinet

**- Software:** BMS, EMS**- Cloud Platforms:** Renepoly Cloud**- Data Sheet:** PCS420 Cabinet Datasheet**- User Manual:** PCS420 Cabinet User Manual

## Technical Parameters

### DC Side

Input DC Voltage Range 615~950V(3P3W) /650~950V(3P4W)

Max. DC Current 684A

DC Input Interfaces Number 1 or 4

### AC Side (grid- tied)

Rated Output Power 420kW

Maximum Output Power 462kW

Rated Frequency 50Hz

Rated Grid Voltage 400V

Grid Voltage Range 320-460V

Rated Current 606A

Total Current Waveform Distortion Rate <3%(Rated Power)

Power Factor Range -1~1

### AC Side (off-grid)

Rated Voltage 400V

Frequency 50Hz

Voltage Range  $\pm 3\%$

Voltage Precision 1%

Voltage Distortion Rate <3%

### General Parameters

Dimension W\*D\*H 624\*1150\*2300mm

Maximum Efficiency 98.2%

Weight ~400kg

Isolation Transformer N/A

Degree of Protection IP54

Allowed Ambient Temperature -25~55°C

Allowed Relative Humidity 0 ~ 95%

Working Altitude <2000m

Enclosure Corrosion Resistance Level C3 (C4/C5 Optional)

Cooling Method Air Cooling

Lifting Options Fork/Crane

Scalability Yes, Units Can Be Connected In Parallel

### Monitoring

Communication RS485/Ethernet

Communication Protocols MODBUS-RTU/MODBUS-TCP

Remote Control System Renepoly Cloud

### Certifications

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

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.

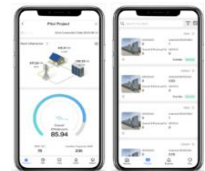
Curious about ReneCloud?  
Scan the QR code right now, register for a test account, and explore all the features of our energy management solution at your own pace. And if you need any help, we're happy to assist!



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

<https://www.renepoly.com>