

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

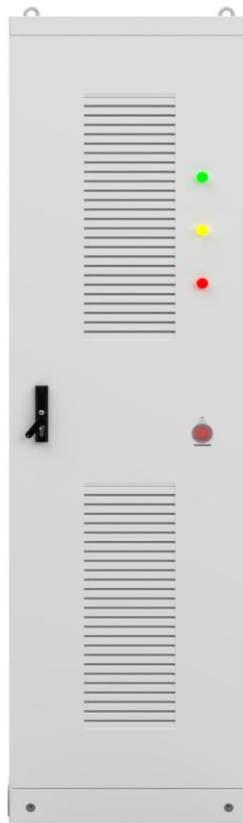
• Hardwares:

PCS, PDU, 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	±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

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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.

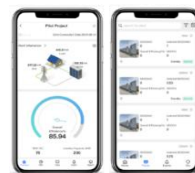
Curious about ReneCloud?
Scan the QR code right now, register for a test account, and explore all the features of our energy management solution at your own pace. And if you need any help, we're happy to assist!



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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