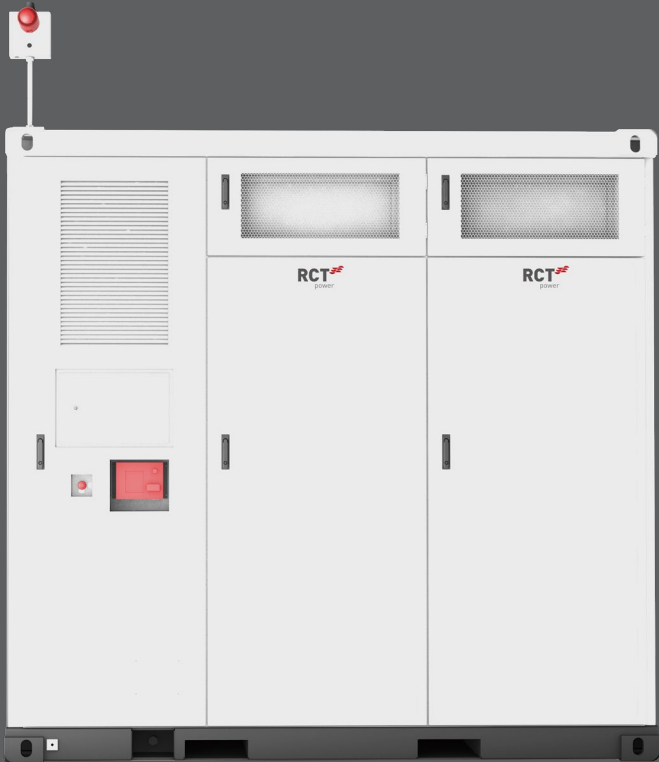


NEW IN USA



Power CESS 200 US



Power CESS 1000 SERIES

POWERFUL COMMERCIAL ENERGY STORAGE SOLUTIONS





BUSINESS AT ANY TIME.



Back-up Power.



Energy Trading.



Demand Mitigation.



Rate Arbitration.

SECURE YOUR BUSINESS WITH INNOVATIVE POWER STORAGE SOLUTIONS

Does your business rely on a stable and uninterrupted power supply?

If you are like most businesses, the answer is yes. But what happens when there is an unexpected outage or surge in demand? You cannot just flip a switch and hope for the best - you need a plan.

That is where our innovative power storage solutions come in. RCT Power provides you with customized battery storage solutions that help reducing energy costs, increasing resilience of power supply, and much more.

Find out more in this brochure.



IMAGINE YOUR INDUSTRY PROVIDING POWER TO A BRIGHTER FUTURE.

Battery storage systems are becoming increasingly popular for commercial and industrial applications in order to maximize energy efficiency, reduce operating costs and increase grid flexibility.

The systems can be used for peak shaving, load shifting, maximizing self-consumption of renewable energy sources such as solar or wind, providing backup power in the event of an outage or participating in grid flexibility services.

Peak shaving involves leveling out energy consumption during peak times, when electricity rates are highest.

Load shifting shifts a portion of the total load from high-cost to low-cost periods. This is beneficial for businesses that are exposed to time-varying energy prices, as it allows them to take advantage of lower prices during off-peak times.

Maximizing self-consumption is another benefit of energy storage systems. This involves storing the energy generated from renewable sources, such as solar or wind, so that it can be used when needed rather than having to rely on external grid power.

Backup power will provide energy in the event of an outage, ensuring that businesses are not left without a vital source of energy.

Finally, energy storage systems can also provide grid flexibility services by providing additional capacity when needed and helping to balance supply and demand on the electricity network.

RCT POWER CESS STORAGE SOLUTIONS

With RCT Power CESS solutions you store your energy for when you need it most or sell your surplus energy back to your local utility.

Wisely making a safe investment into the future of your business and our planet. Industrial, commercial and agricultural facilities optimize their power consumption and become more efficient and independent with a RCT Power CESS storage system.

The LFP battery systems are designed for a variety of commercial and industry applications behind the meter: from energy trading to increasing solar selfconsumption to peak shaving to backup power.

The advanced battery management system (BMS) ensures safe and reliable operation of the product.

RCT Power develops and manufactures in-house with high quality components that meet stringent industry standards for safety, reliability and longevity. With decades of engineering expertise and the latest technology, our advanced battery system offers superior performance, versatility and cost-effectiveness.

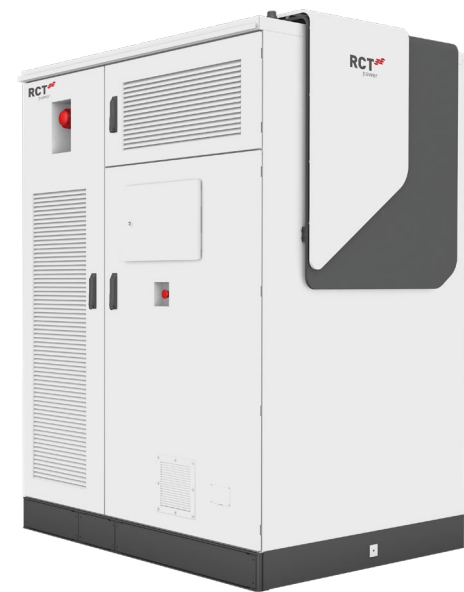


POWER CESS 1000 US SERIES

The perfect 4-in-1 commercial energy storage solution. With the ability to transform into 4 different configurations, this versatile product is designed for small to medium scale solar plus energy storage projects. Its scalability ensures seamless integration into larger projects. The All- In-One solution comes with an internal ATS and fire suppression system. Designed to meet the highest standards of performance and efficiency.



STORAGE SYSTEMS RETHOUGHT.



POWER CESS 200 US

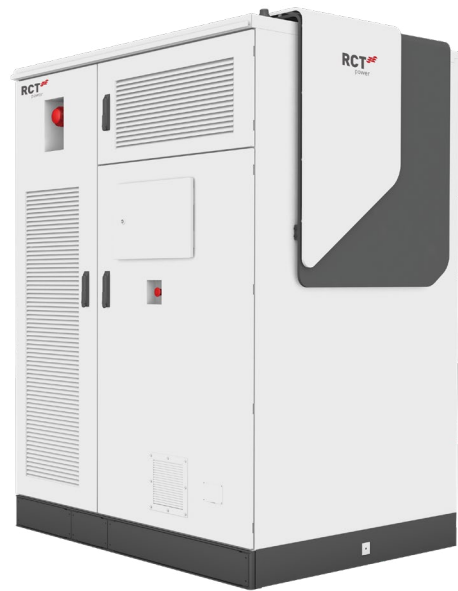
RCT Power CESS 200 US is a reliable 233 kWh battery storage system. This All-In-One cabinet offers maximum performance in a small space. It is fully equipped with LiFePO4 battery modules, inverter, liquid cooling, multi-level battery management system and internal fire suppression system.

RCT Power is a technology leader in stationary storage solutions for residential and industrial use.

The brand has its origin in the city of Konstanz, Germany. Here we have assembled an experienced team of experts in the field of power electronics. Together with our manufacturing in Jiangsu, China, we work on innovative solutions enabling a better and sustainable usage of solar power.

At RCT Power we strongly believe that innovation, quality and superior customer service are the foundations for success.

Our main focus in product development is always based on the simple and flexible design of reliable and sustainable solutions for our customers. Experience it yourself: We are happy to show you how you can use our high voltage technology to harness solar energy and create independence from conventional power suppliers.



POWER CESS 200 US

INDUSTRIAL CABINET ENERGY STORAGE SYSTEM



hi efficiency



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

POWER CESS 200 US

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- All-in-one solution

SAFE TECHNOLOGY

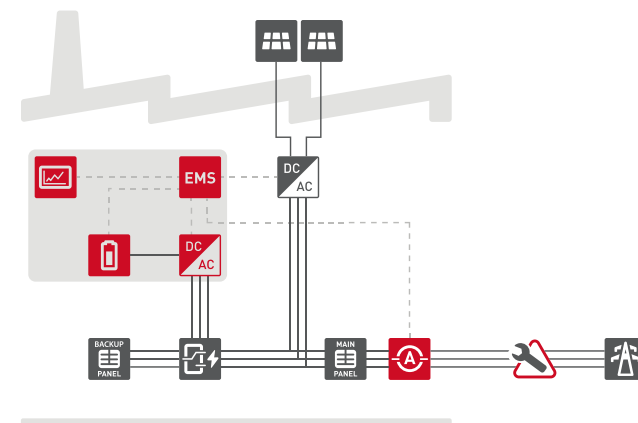
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

- Back-up power
- Peak shaving
- Micro-grids
- Demand mitigation
- Rate arbitration
- Self-consumption

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Multi-parallel system supported



POWER CESS

200 US

BATTERY

Nominal capacity	233 kWh
Usable capacity	217.9 kWh
Battery technology	LFP
Charge / discharge rate	0.5 P (constant power)
Cooling method	liquid cooling
BMS	integrated
Rated DC voltage	832 V
DC voltage range	715 Vdc - 928 Vdc
Battery life cycle	≥6000 times @77°F±36°F, 93.5% DOD, 80% SOH EOL

INVERTER

Operating voltage range (DC connection)	500 Vdc - 950 Vdc
Rated DC current	140 A
Rated AC power	125 kW
Rated AC current	150 A
AC line voltage range	422Vac~528Vac, 3P+N+PE
Rated AC line frequency	60 Hz
Rated AC line voltage	480 Vac, 3P+N+PE

ENERGY MANAGEMENT SYSTEM

EMS	OpenEGrid Apollo™ (optional)
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COMMUNICATION

Communication protocol	Modbus TCP
Touch panel	15.6" industrial standard
Cloud	Yes
App	Yes

OPERATION

Noise Level	≤75dB@1m
Relative operating humidity	0-95 %, no-condensation
Operating temperature range	-13 °F ~ +113 °F
Operating altitude	≤ 6500 ft

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	63 x 87 x 51 inches
Weight	aprox 7275 lbs

SAFETY / STANDARDS

Protection	IP54/NEMA 3R	
Safety features	a. Flammable / explosive gas detection b. Flammable / explosive gas exhaust c. Smoke detection d. Temperature detection	e. Aerosol fire extinguish f. Siren and strobe alarm g. Emergency stop button h. Dry pipe and sprinkle
Certification	UL1973, UN38.3, UL60730-1, UL9540A, UL9540, NFPA 69, UL 1741 Supplement SB - 3rd Edition, UL 1741 Supplement SA - 3rd Edition, SunSpec compliant, California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020, OpenADR	

WARRANTY

Warranty	10 years
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POWER CESS 1000 US SERIES

POWER CESS 1000 US SERIES

INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM



back-up
power supply



store and trade
energy



manage energy
sources and tariffs



increase
self-sufficiency

RELIABLE POWER SUPPLY

- 466-932 kWh outdoor-rated container storage system
- AC coupled system

SAFE TECHNOLOGY

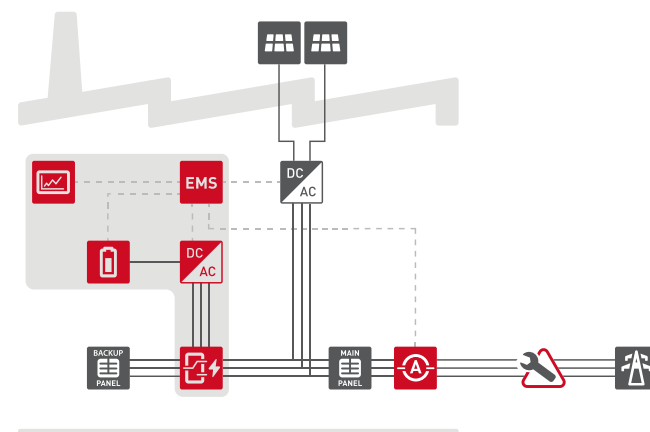
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ENERGY MANAGEMENT SYSTEM

- Back-up power
- Peak shaving
- Micro-grids
- Demand mitigation
- Rate arbitration

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Multi-parallel system supported



POWER CESS

**900 class
2 hour system**

**900 class
4 hour system**

**700 class
2 hour system**

**450 class
2 hour system**

932-500-02D

932-250-02D

699-375-02D

466-250-02D

BATTERY

Nominal capacity	932 kWh	932 kWh	699 kWh	466 kWh
Usable capacity (94 % DoD)	871 kWh	871 kWh	653 kWh	435 kWh
Battery technology	LiFePO ₄			
Charge/discharge rate	0.5 P			
Battery pack structure	1P52S (46.59 kWh) liquid cooled			
BMS	integrated			
Battery life cycle	≥6000 times @77°F± 36°F 0,5 P 93.5% DOD, 80% SOH EOL			

INVERTER

Rated AC power	500 kW (125 kW x 4)	250 kW	375 kW	250 kW
DC-side operating voltage range	680 - 950 Vdc			
Rated AC current	600 A (150 A x 4)	300 A	450 A	300 A
AC line voltage	480 Vac (- 15 % - +10 %)			
Rated AC line frequency	60 Hz			
Current harmonics	< 3 % @ rated AC power			
Cooling Method	Liquid			

STS

Grid port power	1000 kW (250 kW x 4)	500 kW	750 kW	500 kW
Grid port rated current	1200 A (300 A x 4)	600 A	900 A	600 A
Load port power	500 kW (125 kW x 4)	250 kW	375 kW	250 kW
Long-term overload capacity	110%			
From On-grid to Off-grid Switch Time	20 ms			
From Off-grid to On-grid Switch Time	20 ms			
Corrosion-proof Grade/Salt Spray Resistance	C4			
Dark Start	Yes			

ENERGY MANAGEMENT SYSTEM

EMS	Integrated
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COMMUNICATION

Touch panel	15.6" industrial standard
Communication protocol	Modbus TCP/RTU
Cloud	yes
App	yes

OPERATION

Noise Level	≤75dB@1m
Relative operating humidity	0-95 %, no-condensation
Operating temperature range	-13 °F... +122 °F
Operating altitude	≤ 6500 ft

DIMENSIONS

Dimensions (W x H x D)	118" x 102" x 96"			
Weight	aprox 25,000 lbs	aprox 24,000 lbs	aprox 21,000 lbs	aprox 17,000 lbs

SAFETY / STANDARDS

Protection	IP54/NEMA 3R			
Safety features	a. Flammable / explosive gas detection b. Flammable / explosive gas exhaust c. Smoke detection d. Temperature detection	e. Aerosol fire extinguish f. Siren and strobe alarm g. Emergency stop button h. Dry pipe and sprinkler		
Certification	UL 1741 Supplement SB - 3rd Edition, UL 1741 Supplement SA - 3rd Edition, SunSpec compliant, California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020, OpenADR			

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STORE ENERGY AND USE IT FOR WHENEVER YOU NEED IT.



WWW.RCT-POWER.US

CALL US FOR CONSULTATION.
FREE OF COST: **888-99-RCTUS** (888-99-72887)

