

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 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.



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.

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

POWER CESS 200 US

INDUSTRIAL CABINET ENERGY STORAGE SYSTEM



hi efficiency



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

RELIABLE POWER SUPPLY

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

SAFE TECHNOLOGY

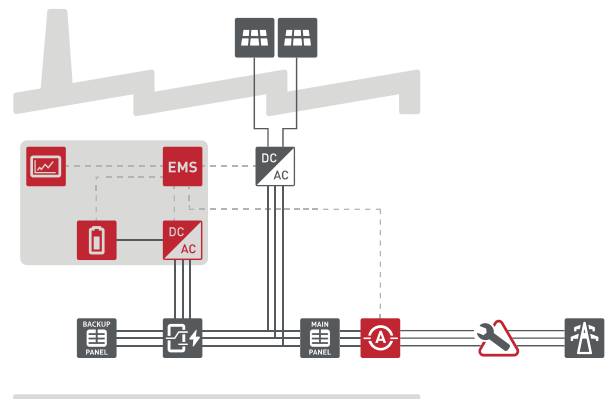
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

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
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

INVERTER

Operating voltage range (DC connection)	700 Vdc - 950 Vdc
Rated DC power	125 kW
Rated AC power	125 kW
Rated AC current	150 A
Rated AC line frequency	60 Hz
Rated AC line voltage	480 Vac
Cooling method	liquid cooling

ENERGY MANAGMENT SYSTEM

EMS	Molecule Systems mOS (optional)
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COMMUNICATION

Communication protocol	Modbus TCP/RTU,CAN
Touch panel	15.6 " industrial standard
Cloud	Yes
App	Yes

OPERATION

Noise Level	≤ 75dB@1m
Relative operating humidity	0-95 %RH, no-condensation
Operating temperature range	-4 °F ~ +113 °F (-20 °C ~ +45 °C)
Operating altitude	≤ 6500 ft

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	63 x 87 x 51 inches
Weight	aprox 7055 lbs

SAFTEY / STANDARDS

Protection	IP54/NEMA 3R
Corrosion-proof grade	C4

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
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Certification	UN 38.3, NFPA 69, UL 1973, UL 60730, UL 9540A, UL 9540
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WARRANTY

Warranty	10 years
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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

POWER CESS 1000 US SERIES

RELIABLE POWER SUPPLY

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

SAFE TECHNOLOGY

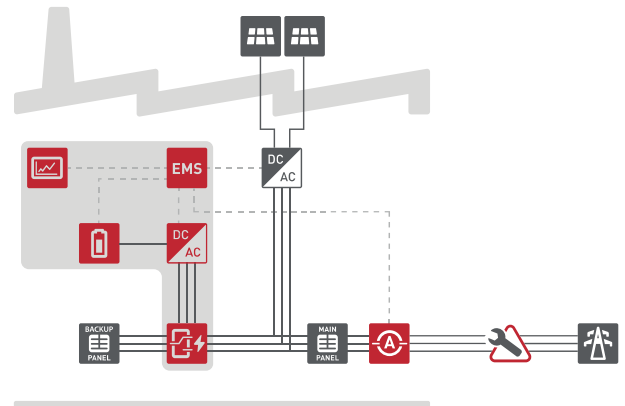
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

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

700 class 2 hour system

450 class 2 hour system

932-500-02D

699-375-02D

466-250-02D

BATTERY

Nominal capacity	932 kWh	699 kWh	466 kWh
Battery capacity per Pack	46.592kWh		
Battery technology	LiFePO ₄		
Charge/discharge rate	≤ 0.5 P		
Battery pack structure	1P52S		
BMS	integrated		
Cooling Method	Liquid cooling		
Rated DC voltage	832Vdc		
DC voltage range	715~928Vdc		

INVERTER

Rated AC power	500 kW	375 kW	250 kW
DC-side operating voltage range	700 - 1000Vdc		
Rated AC current	600 A	450 A	300 A
AC rated voltage	480 Vac		
Rated AC line frequency	60 Hz		
Power factor	0.99 @ rated AC power		
Cooling Method	Liquid		

ENERGY MANAGMENT SYSTEM

EMS	Molecule Systems mOS (optional)
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COMMUNICATION

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

OPERATION

Noise Level	≤75dB@1m
Relative operating humidity	0-95 %RH, no-condensation
Operating temperature range	-4°F... +133 °F (-20 °C ~ +45 °C)
Operating altitude	≤ 6500 ft

DIMENSIONS

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

SAFTEY / STANDARDS

Protection	IP54/NEMA 3R	
Corrosion-proof grade	C4/C5	
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	UN 38.3, NFPA 69, UL 1973, UL 60730, UL 9540A, UL 9540	

WARRANTY

Warranty	10 years
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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)

