



# POWER UP YOUR BUSINESS.

Set your business free from increasing energy prices. Optimize electricity rate and earn money by trading energy. Build your own virtual power plant.

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## BUSINESS AT ANY TIME.



Back-up Power.



Energy Trading.



Demand Mitigation.



Rate Arbitration.

## UNLOCK YOUR BUSINESS WITH INNOVATIVE ENERGY 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 energy storage solutions come in. RCT Power provides you with customized energy 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.

Energy 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 LiFePO<sub>4</sub> 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.

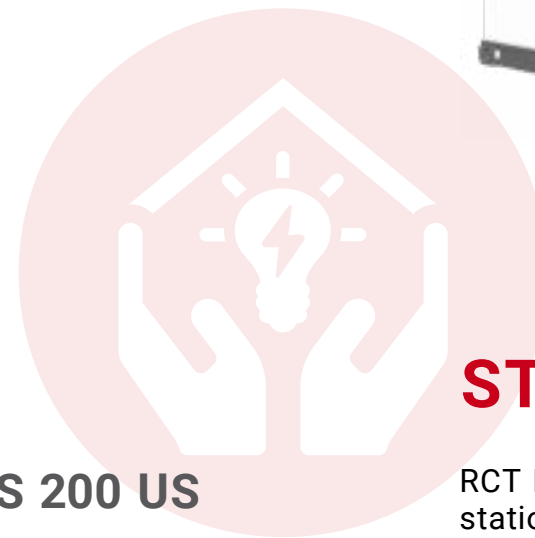
The advanced battery management system (BMS) ensures safe and reliable operation of the product.

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.



## RCT POWER CESS 1500 US

This efficient industrial storage container is fully equipped with LiFePO<sub>4</sub> battery modules, AC/DC inverter, liquid cooling, multi-level battery management system and manual backup power switch for grid outages.



## STORAGE SYSTEMS RETHOUGHT.

## RCT POWER CESS 200 US

This all-in-one cabinet offers high performance in a small space. It is fully equipped with LiFePO<sub>4</sub> battery modules, AC/DC inverter, liquid cooling, multi-level battery management 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

## 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

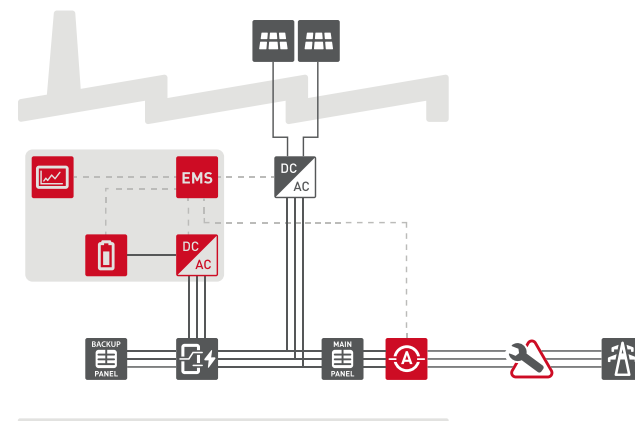
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

### 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
Usable capacity (90 % DoD)	209.7 kWh
Battery technology	LiFePO <sub>4</sub>
Charge / discharge rate	0.5 P
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 0.5 P charge / discharge energy retention 80 % SOH

### INVERTER

Operating voltage range (DC connection)	500 Vdc - 950 Vdc
Max DC current	167 A
Rated AC power	100 kW
Max AC power	110 kW
Max AC current	120 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

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	<table border="0"> <tr> <td>a. Flammable / explosive gas detection</td> <td>e. Aerosol fire extinguish</td> </tr> <tr> <td>b. Flammable / explosive gas exhaust</td> <td>f. Siren and strobe alarm</td> </tr> <tr> <td>c. Smoke detection</td> <td>g. Emergency stop button</td> </tr> <tr> <td>d. Temperature detection</td> <td>h. Dry pipe and sprinkle</td> </tr> </table>	a. Flammable / explosive gas detection	e. Aerosol fire extinguish	b. Flammable / explosive gas exhaust	f. Siren and strobe alarm	c. Smoke detection	g. Emergency stop button	d. Temperature detection	h. Dry pipe and sprinkle
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c. Smoke detection	g. Emergency stop button								
d. Temperature detection	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	5 years
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POWER CESS 1500 US

## POWER CESS 1500 US

### INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM



back-up power supply



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

#### RELIABLE POWER SUPPLY

- 1491 kWh outdoor-rated container storage system
- AC coupled system
- Manual backup power for grid outages

#### SAFE TECHNOLOGY

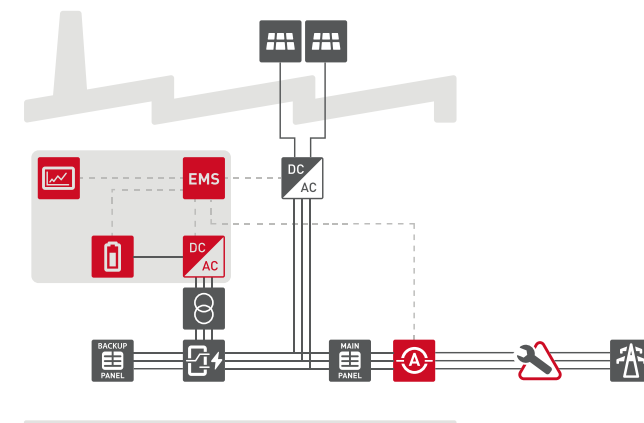
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
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#### ENERGY MANAGEMENT SYSTEM

- 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

## 1500 US

### BATTERY

Nominal capacity	1491 kWh
Usable capacity (90 % DoD)	1342 kWh
Battery technology	LiFePO <sub>4</sub>
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 charge / discharge energy retention 80 % SOH

### INVERTER

Max AC power	770 kVA (192.5 kVA x 4)
Rated AC power	700 kW (175kW x 4)
Grid Transformer	not included
DC-side operating voltage range	920 Vdc-1500Vdc
Max AC current	740 A (185 A x 4)
AC line voltage	600 Vac (- 15 % to 10 %)
Rated AC line voltage	600 Vac
Rated AC line frequency	60 Hz
Current harmonics	< 3 % @ rated AC power

### ENERGY MANAGEMENT SYSTEM

EMS	OpenEGrid Apollo™ (optional)
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### COMMUNICATION

Touch panel	15,6" industrial standard
Communication protocol	Modbus TCP
Cloud	Yes
App	Yes

### OPERATION

Relative operating humidity	0-95 %, no-condensation
Operating temperature range	-22 F...+122 F
Operating altitude	≤ 6500 ft

### DIMENSIONS

Dimensions (W x H x D)	118 x 114 x 96 inches
Weight	aprox. 37.500 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 i. Fire alarm control panel
Certification	UL1973, UN38.3, UL60730-2, 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	5 years
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# STORE ENERGY AND USE IT FOR WHENEVER YOU NEED IT.



[WWW.RCT-POWER.US](http://WWW.RCT-POWER.US)

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

