



POWER UP YOUR BUSINESS.

Lower your electricity bill with solar energy and battery power. Commercial and industrial storage systems.

RCT 
power



BUSINESS AT ANY TIME.



Back-up Power.



Self-Consumption.



Demand Mitigation.



Rate Arbitration.

UNLOCK YOUR BUSINESS WITH INNOVATIVE POWER STORAGE SOLUTIONS.

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

If your business is similar to most, the answer is likely yes. However, what do you do when faced with an unexpected outage or a sudden surge in demand? You can't simply rely on chance; you need a well-thought-out plan in place.

That is why RCT Power storage solutions are designed to provide stable electricity supply. At RCT Power, we offer battery storage solutions that effectively reduce electricity costs, enhance power supply resilience, and provide various other benefits.



IMAGINE YOUR INDUSTRY PROVIDING POWER TO A BRIGHTER FUTURE.

Battery storage systems are experiencing a surge in popularity within the commercial and industrial sectors due to their ability to optimize energy efficiency, curtail operating expenses, and enhance grid adaptability.

These systems serve various purposes, including peak shaving, load shifting, maximizing the utilization of renewable energy sources like solar or wind, offering backup power during outages, and participating in grid flexibility services. Peak shaving is the practice of smoothing out energy consumption during periods

of peak demand, typically when electricity rates are at their highest. By strategically managing energy usage, you can avoid higher costs.

Load shifting involves moving a portion of the overall energy consumption from high-cost periods to low-cost periods. This is advantageous for businesses operating in environments with time-varying energy prices, as it enables them to capitalize on lower electricity rates during off-peak hours.

Maximizing self-consumption is a significant advantage of energy storage systems. By capturing and storing renewable energy, these systems enable businesses to utilize that energy when needed. This reduces their reliance on external grid power and leads to cost savings over time.

Backup power capability is crucial to ensure critical operations during outages, minimizing downtime, and safeguarding productivity.

Battery storage systems play a pivotal role in offering grid flexibility services. By acting as responsive energy resources, storage systems contribute to maintaining a stable and balanced electricity network. As a result, battery storage systems are becoming increasingly valuable assets for grid operators and utility companies as they work to manage the complexities of the modern energy landscape effectively.

RCT POWER CESS STORAGE SOLUTIONS

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 safe lithium iron phosphate battery systems (LFP) are designed for a variety of commercial and industry applications behind the meter: from energy trading to increasing solar self-consumption 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

This efficient industrial storage container is fully equipped with LFP 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

This all-in-one cabinet offers high performance in a small space. It is fully equipped with LFP 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.

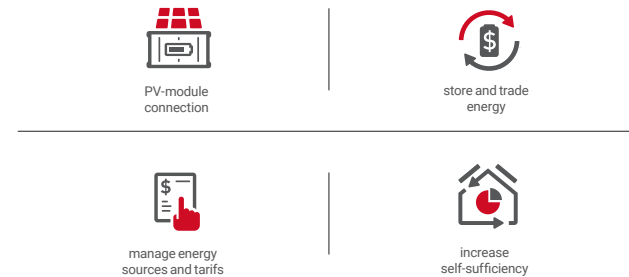
Our main focus in product development is always based on the simple and flexible design of reliable and sustainable solutions for our customers. Experience it yourself: We are happy to show you how you can use our high voltage technology to harness solar energy and create independence from conventional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





POWER CESS 200

INDUSTRIAL CABINET ENERGY STORAGE SYSTEM



POWER CESS 200

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- All-in-one solution incl. direct solar electricity storage
- Automatic backup power for grid outages

SAFE TECHNOLOGY

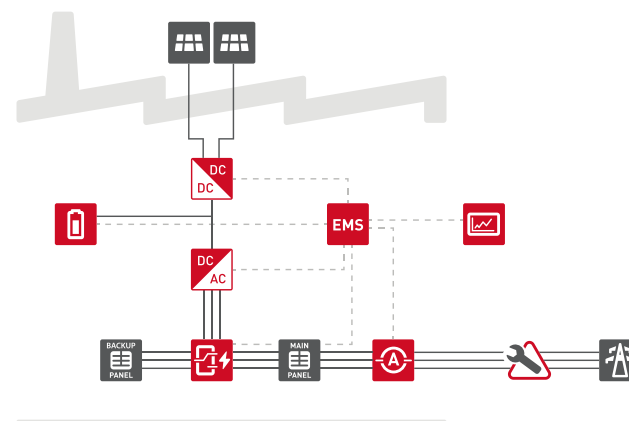
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- DC/DC converter with solar input
- 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

BATTERY

Nominal capacity	233 kWh
Usable capacity (90 % DoD)	209.7 kWh
Battery technology	LFP
Charge / discharge rate	0.5 P (constant power)
Cooling method	liquid cooling
BMS (Battery Management System)	integrated
Rated DC voltage	832 V
DC voltage range	715 Vdc-928 Vdc
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH

INVERTER

Operating voltage range (DC connection)	650 - 950 V
Max DC current	150 A
Rated AC power	100 kW
Max AC power	110 kW
Max AC current	145 A
AC line voltage	400 V ± 15 %, 3P+N+PE
Rated AC line frequency	50 Hz
Rated AC line voltage	400 Vac, 3P+N+PE

CONVERTER

Max. number of MPPTs	2
MPPT operating voltage range	200 Vdc - 950 Vdc
Max. current per MPPT	80 A
Max. power	100 kW

BACKUP POWER

Grid port power	200 kW
Grid port rated current	290 A
AC/DC port power	100 kW
Load port power	100 kW
Rated frequency	50 Hz
Switch time	grid to backup <50ms

ENERGY MANAGEMENT SYSTEM

EMS	integrated
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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	-25°C ...+45°C
Operating altitude	≤ 2000 m

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	1600 x 2200 x 1300 mm
Weight	aprox. 3300 kg

SAFETY / STANDARDS

Protection	IP54
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	EN IEC 62619, EN IEC 63056, EN 62477-1, EN 61000-6-2/-4, UN38.3, EN IEC 60730-1, EN 62109-1/-2, EN 62477-1, EN 61000-6-2/-4, EN 62933-5-2, NRS097-2-1/BESF, VDE-AR-N 4105, VDE-AR-N 4110, AS 4777.2, CE declaration
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WARRANTY

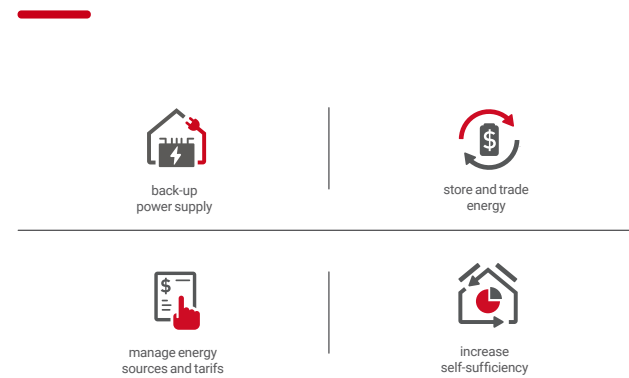
Warranty	5 years (option: 10 years)
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POWER CESS 1500

POWER CESS 1500

INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM



RELIABLE POWER SUPPLY

- 1491 kWh outdoor-rated container storage system
- AC coupled system

SAFE TECHNOLOGY

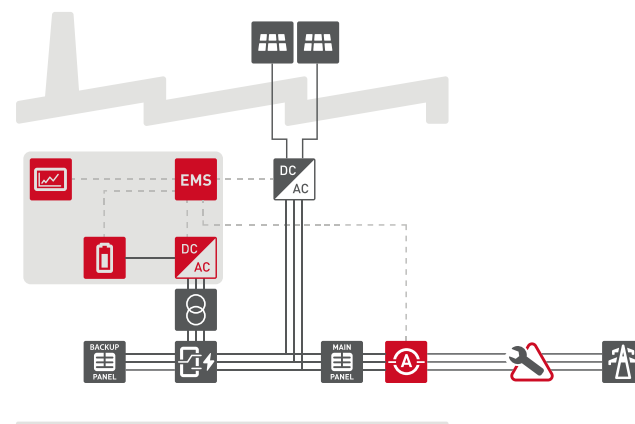
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

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

1500

BATTERY

Nominal capacity	1491 kWh
Usable capacity (90 % DoD)	1342 kWh
Battery technology	LFP
Charge/discharge rate	0.5 P (constant power)
Cooling method	liquid cooling
BMS (battery management system)	integrated
Rated voltage	1331 Vdc
Voltage range	1144 Vdc - 1485 Vdc
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH

INVERTER

Max AC power	822.8 kW (205.7 kW x 4)
Rated AC power	748kW (187 kW x 4)
Grid Transformer	not included
DC-side operating voltage range	1060 - 1500 Vdc
Max AC current	688 A (172 A x 4)
AC line voltage	690 Vac (- 15 % to 10 %)
Rated AC line voltage	690 Vac
Rated AC line frequency	50 Hz
Current harmonics	< 3 % @ rated AC power

ENERGY MANAGEMENT SYSTEM

EMS	integrated
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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	-30°C~+50°C
Operating altitude	≤ 2000 m

DIMENSIONS

Dimensions (L x H x D)	2991 x 2896 x 2438 mm
Weight	aprox 16600 Kg

SAFETY / STANDARDS

Protection	IP54
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

EN IEC 62619, EN IEC 63056, EN 62477-1, EN 61000-6-2/-4, UN38.3, EN IEC 60730-1, EN 62109-1/-2, EN 62477-1, EN 61000-6-2/-4, EN 62933-5-2, NRS097-2-1/BESF, VDE-AR-N 4105, VDE-AR-N 4110, CE declaration

WARRANTY

Warranty	5 years (option: 10 years)
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**SOLAR.
STORED.
POWER.**



WWW.RCT-POWER.AU

