POWER UP YOUR BUSINESS.

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

RCT power

RCT Power provides you with battery storage solutions that reduce your electricity costs and dependence on the power grid effectively and improve security of supply sustainably.

Back-up Power

Self-Consumption

Demand Mitigation

Rate Arbitration

UNLOCK YOUR BUSINESS WITH INNOVATIVE BATTERY 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, 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.

RCT power

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

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 200

This all-in-one cabinet offers high performance in a small space. It is fully equipped with LFP battery modules, AC/DC inverter, direct PV DC conection, liquid cooling, multi-level battery management system.

RCT POWER CESS 1000 SERIES

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

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 brought together 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.

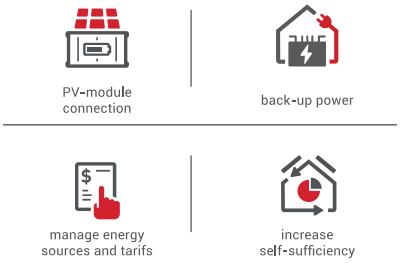
At RCT Power we strongly believe that innovation, quality and superior customer service are the foundations for success.

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.

RCT power

RCT POWER CESS 200

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- Backup power for grid outages
- Solar integration, storing excess solar power

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

SMART ENERGY MANAGEMENT

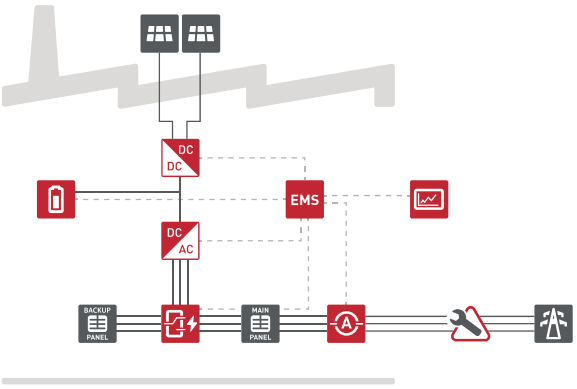
- Software RCT RPEMS
- Self-Consumption
- Back-up power
- Peak shaving
- Micro-grids
- Demand management
- Demand response
- PV-storage integration

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
- Automatic back-up power switching

EASY OPERATION

- Modular, scalable design for precise project sizing
- Multi-parallel system supported
- Optional DC/DC converter for PV-module connection



RCT power

POWER CESS 200

BATTERY

Nominal capacity	233 kWh
Battery technology	$LiFePO_4$
Charge / discharge rate	0.5 P
Battery pack structure	1P52S
Cooling	Liquid Cooling
BMS	Integrated
Rated DC voltage	832 Vdc
DC voltage range	715 - 928 Vdc

INVERTER

Operating voltage range (DC connection)	650 - 950 Vdc
Rated DC power	100 kW
Rated AC power	100 kW
Rated AC current	144 A
AC Rated voltage	400 Vac
AC line frequency	50 / 60 Hz
Peak efficiency	98.50%

CONVERTER (OPTIONAL)

Max. number of MPPTs	2
Max. string voltage	900 Vdc
Max. input current per MPPT	80 A
Rated power	100 kW

BACKUP POWER (OPTIONAL)

Rated power	200 kW
Rated voltage	400Vac
Rated Frequency	50 / 60 Hz
Long-term overload capacity	110%

ENERGY MANAGEMENT SYSTEM

EMS	Integrated

COMMUNICATION

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

OPERATION

Relative operating humidity	0 ~ 95 %RH, no-condensation
Operating temperature range	-20°C ... +45°C
Operating altitude	≤ 2000 m

DIMENSIONS (TOTAL)

Dimensions (W x H x D)	1600 x 2200 x 1300 mm
Weight	Approximately 3200 kg

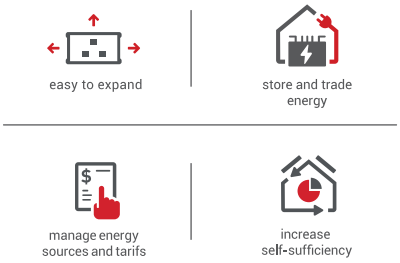
SAFTEY / STANDARDS

Protection	IP54	
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
Certification	UN 38.3, IEC 62619, IEC 63056, EN 62477, IEC 60730, EN 62933, EN 61000	

RCT power

RCT POWER CESS 1000 SERIES

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



RELIABLE POWER SUPPLY

- 466-932 kWh outdoor-rated container 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

SMART ENERGY MANAGEMENT

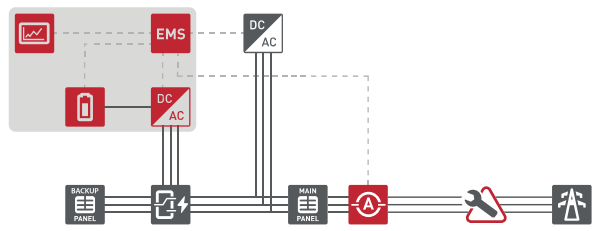
- Software RCT RPEMS
- Peak shaving
- Demand management
- Demand response

HIGH EFFICIENCY

- Highly efficient modularized AC/DC inverter for each battery rack independently
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance

EASY OPERATION

- Modular, scalable design for precise project sizing
- Non-walk-in double-sided door design
- Multi-parallel system supported



RCT power

POWER CESS	900	700	450
BATTERY			
Nominal capacity	932 kWh	699 kWh	466 kWh
Battery technology	LiFePO		
Charge / discharge rate	0.5 P_4		
Battery pack structure	1P52S		
Cooling	Liquid Cooling		
BMS	Integrated		
Rated DC voltage	832 Vdc		
DC Voltage range	715 - 928 Vdc		
INVERTER			
Operating voltage range (DC connection)	680 - 1000 Vdc		
Rated AC power	500 kW	375 kW	250 kW
Rated AC current	720 A	540 A	360 A
AC Rated voltage	400 Vac		
AC line frequency	50 / 60 Hz		
Peak efficiency	98.60%		
ENERGY MANAGEMENT SYSTEM			
EMS	Integrated		
COMMUNICATION			
Communication protocol	Modbus TCP/RTU，CAN		
Touch panel	15,6 " industrial standard		
Cloud	Yes		
App	Yes		
OPERATION			
Relative operating humidity	0 - 95 % RH, no-condensation		
Operating temperature range	-20°C ... +45°C		
Operating altitude	≤ 2000 m		
DIMENSIONS (TOTAL)			
Dimensions (W x H x D)	2991 x 2591 x 2438 mm		
Weight	Approx. 11500 kg	Approx. 9700 kg	Approx. 7800 kg
SAFTEY / STANDARDS			
Protection	IP54		
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, IEC 62619, IEC 63056, EN 62477, EN 62040, IEC 60730, EN 62933, EN 61000		

RCT power

SOLAR.
STORED.
POWER.

WWW.RCT-POWER.AU

RCT power