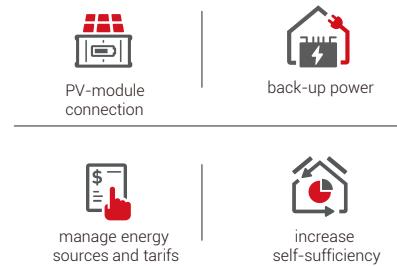




# RCT POWER CESS 200

## 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

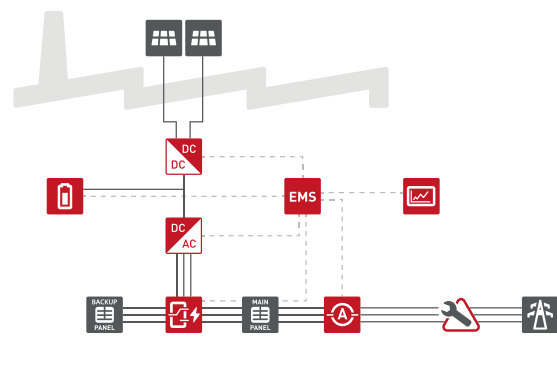
- Off-grid Operation
- Self-consumption
- T.O.U(Time of use)
- Peak Shaving
- Third-party Power Dispatching
- Backup Power Supply

### HIGH EFFICIENCY

- Highly efficient PCS
- 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 within 50ms

### EASY OPERATION

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



**GENERAL**

Nominal Capacity	233 kWh
Usable Capacity(95% DOD)	221.35 kWh
Maximum Charge/Discharge Rate	0.5C
Self-discharge Rate	≤3.5% (per month)
Relative Operating Humidity	0% ~ 95% RH, Non-condensing
Operating Temperature Range	-25℃ ~ 45℃
Storage Temperature Range	-30℃ ~ 50℃(recommended 0℃ to 30℃ )
Operating Altitude	≤2000m
Dimensions (mm)	W1600×H2200×D1300
Corrosion-proof Grade of Cabinet	C4
Weight	Approximately 2900 kg
IP Rating	IP54(Battery room IP55)
Noise Level	≤70dB
Communication Protocol	Modbus TCP/RTU, CAN
Black-start Function(Dark Start)	Yes
AC Line Frequency	50/60 Hz
Auxiliary Power Supply	External
BMS	Integrated
EMS	Integrated

**BATTERY(Optional)**

Battery Rack Quantity	1
Battery Pack Quantity Per Rack	5
Battery Pack Structure	1P52S
Battery Capacity per Pack	46.592 kWh
Battery Type	LiFePO <sub>4</sub>
DC-side Rated Voltage	832 Vdc
DC-side Operating Voltage Range	715~928 Vdc
Cooling Concept	Liquid-cooling
Cycle Lifetime	≥6000cls (70%SOH,25±2℃)

**PCS**

DC Operating Voltage Range	650~950 Vdc
Max. DC Current	160 A
Rated AC Power	100 kW
Rated AC Current	144 A
Rated AC Voltage	400 Vac, 3P+N+PE
Power Factor Adjustable Range	-1 ~ +1
Peak Efficiency	>98.5%
Long-term Overload Capacity	110%
Cooling Concept	Air-cooling

**DC/DC Converter(Optional)**

Max. Number of MPPTs	2
Max. String Voltage	950 Vdc
Min. String Voltage	200 Vdc
Max. Input Current per MPPT	80 A
MPPTS Voltage Range	180 Vdc~900 Vdc
Rated Power	100 kW
Peak Efficiency	>99%

**STS(Optional)**

Rated Power	200 kW
Rated Voltage	400 Vac
Rated Frequency	50/60 Hz
Long-term Overload Capacity	110%

**SAFETY FEATURE**

Flammable/explosive Gas Detection、  
Flammable/explosive Gas Exhaust、  
Smoke Detection、Temperature Detection、  
Aerosol Fire Suppression、Siren and Strobe Alarm、  
Dry Pipe and Sprinkle、Emergency Stop Button

**STANDARDS**

EN IEC 62619, IEC 63056, EN 62477-1, IEC 60730-1 Annex H, EN 62109-1&-2,  
EN IEC 61000-6-2&-6-4, EN 62933-5-2, VDE-AR-E 2510-50, UN 38.3, RED,  
NRS 097-2-1 Clause 4.1.13