



RCT Power CESS Liquid-cooled C&I Energy Storage Solutions



Core Features



High Level of Safety

Safer than EV

- Active security in the Cloud
- Stable local control
- Reliable hardware



Long-life

Cycle times up to cell level

- Mature equalization technique
- Extensive thermal management technology
- Complete supply chain management system



Easy Maintenance

Convenient to use

- Predictive maintenance
- Fully Self-developed EMS -Unattended, fully automated operation
- Five-star after-sales service

Application Scenarios

Commercial Syntheses/Office building / Industrial Park



CESS 1000



CESS 1500

EV Storage and Charging Station / Guesthouse



CESS 200



CESS 200

RCT POWER CESS 200

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM

- PV module connection, PV-storage integration
- Highly efficient STS, automatic backup power for grid outages
- Modular and flexible options for fine items
- All-in-one solution incl. direct solar electricity storage



BATTERY		CONVERTER (OPTIONAL)		IEC
Nominal capacity	233 kWh	Max. number of MPPTs		2
Battery technology	LiFePO ₄	Max. string voltage		900 Vdc
Charge / discharge rate	0.5 P	Max. input current per MPPT		80 A
Battery pack structure	1P52S	Rated power		100 kW
Cooling	Liquid Cooling			
BMS	Integrated			
Rated DC voltage	832 Vdc			
DC voltage range	715 ~ 928 Vdc			
INVERTER	IEC	UL	BACKUP POWER (OPTIONAL)	IEC
DC Operating voltage range	650 - 950 Vdc	700 - 950 Vdc	Rated power	200 kW
Rated AC power	100 kW	125 kW	Rated voltage	400Vac
Rated AC current	144 A	150 A	Rated Frequency	50 / 60 Hz
AC rated voltage	400 Vac	480 Vac	Long-term overload capacity	110%
AC line frequency	50 / 60 Hz	60 Hz		
Peak efficiency	98.50%	98.60%		
ENERGY MANAGEMENT SYSTEM				
EMS	Integrated			
COMMUNICATION				
Communication protocol	Modbus TCP/RTU, CAN			
Touch panel	15,6" industrial standard			
Cloud / APP	Yes			
OPERATION				
Relative operating humidity	0 ~ 95% RH, no-condensation			
Operating temperature range	-20 C ... +45 C			
Operating altitude	≤ 2000m			
DIMENSIONS (TOTAL)				
Dimensions(W x H x D)	1600 x 2200 x 1300 mm			
Weight	Approximately 3200 kg			
SAFETY / STANDARDS				
Protection	IP54 / NEMA 3R			
Corrosion-proof grade	C4			
Safety	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		
Certification	UN 38.3, IEC 62619, IEC 63056, EN 62477, IEC 60730, EN 62933, EN 61000 NFPA 69, UL 1973, UL 60730, UL 9540A, UL 9540			

RCT POWER CESS 1000 SERIES

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM

- Modular battery racks and PCS for flexible combination
- Support parallel connection and block-building construction
- Multi-level electrical safety and six-dimensional fire protection systems



BATTERY		
Nominal capacity	932 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	IEC	UL
DC Operating voltage range	680 - 1000 Vdc	700 - 1000 Vdc
Rated AC power	4 x 125 kW = 500 kW	4 x 125 kW = 500 kW
Rated AC current	4 x 180 A = 720 A	4 x 150 A = 600 A
AC rated voltage	400 Vac	480 Vac
AC line frequency	50 / 60 Hz	60 Hz
Peak efficiency	98.60%	98.60%
ENERGY MANAGEMENT SYSTEM		
EMS	Integrated	
COMMUNICATION		
Communication protocol	Modbus TCP/RTU, CAN	
Touch panel	15,6" industrial standard	
Cloud / APP	Yes	
OPERATION		
Relative operating humidity	0 ~ 95% RH, no-condensation	
Operating temperature range	-20°C ... +45°C	
Operating altitude	≤ 2000m	
DIMENSIONS (TOTAL)		
Dimensions(W x H x D)	2991 x 2591 x 2438 mm	
Weight	Approximately 11600 kg	
SAFETY / STANDARDS		
Protection	IP54 / NEMA 3R	
Corrosion-proof grade	C4 / C5	
Safety	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
Certification	UN 38.3, IEC 62619, IEC 63056, EN 62477, EN 62040, IEC 60730, EN 62933, EN 61000 NFPA 69, UL 1973, UL 60730, UL 9540A, UL 9540	

RCT POWER CESS 1500

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM

- 1491 kWh outdoor-rated container storage system
- Standard 10ft container storage system, easy transportation
- Highest level of safety, thermal stability and reliability
- High degree of performance, intelligent charging and reduction of peak loads



BATTERY

Nominal capacity	1491 kWh
Battery technology	LiFePO ₄
Charge / discharge rate	0.5 P
Battery pack structure	1P52S
Cooling	Liquid Cooling
BMS	Integrated
Rated DC voltage	1331 Vdc
DC voltage range	1144 ~ 1485 Vdc

INVERTER

DC Operating voltage range	1060 ~ 1450 Vdc
Rated DC current	560A
Rated DC power	748kW
Rated AC power	822.8kW
Rated AC current	624A
AC rated voltage	690 Vac (-15% to 10%)
AC line frequency	50 / 60 Hz
Peak efficiency	98.80%

ENERGY MANAGEMENT SYSTEM

EMS	Integrated
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COMMUNICATION

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

OPERATION

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

DIMENSIONS (TOTAL)

Dimensions(W x H x D)	2991 x 2896 x 2438 mm (ISO 10ft HQ)
Weight	Approximately 16600 kg

SAFTEY / STANDARDS

Protection	IP54	
Corrosion-proof grade	C4	
Safety	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

MORE RELIABLE GREEN ENERGY BETTER FUTURE LIFE

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