



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

Nominal capacity	233 kWh
Usable capacity	217.9 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
Battery life cycle	≥6000 times @25°C±2°C 100% DOD, 80% SOH EOL

INVERTER

EU/AU

US

CONVERTER (EU/AU)

DC Operating voltage range	650 - 950 Vdc	700 - 1000 Vdc	Max. number of MPPTs	2
Rated DC current	140 A	140 A	Max. String Voltage	950 Vdc
Rated DC power	100 kW	125 kW	MPPT operating voltage range	180-900 Vdc
Rated AC power	100 kW	125 kW	Max. current per MPPT	80 A
Rated AC current	145 A	150 A	Rated. power	100 kW
AC line voltage	400 Vac ± 15%	480Vac -15%~+10%		
AC line frequency	50 / 60 Hz	60 Hz		
Peak efficiency	98.50%	98.70%		

COMMUNICATION

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

BACKUP POWER (EU/AU)

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

OPERATION

Relative operating humidity	0 ~ 95%, no-condensation
Operating temperature range	-25°C ... +45°C
Operating altitude	≤ 2000m

DIMENSIONS (TOTAL)

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

SAFETY / STANDARDS

Protection	IP54/NEMA 3R
Safety	IEC 62619, IEC 63056, EN 62477-1, IEC 60730-1, EN 62109-1/-2, EN 62933-5-2, UN 38.3, CE listing, CEC listing UL1973, UL60730-1, UL 9540A, UL 9540, UN 38.3, NFPA 69
Grid Certification	VDE-AR-N 4105, VDE-AR-N 4110, AS 4777.2, EN 50549-1/-10, NRS097-2-1/BESF UL 1741 Supplement SA, UL 1741 Supplement SB, SunSpec compliant, California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020, OpenADR
EMC	EN IEC 61000-6-2/-4

RCT POWER CESS 1000

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM

- Modular battery racks and PCS for flexible combination
- Support parallel connection and block-building construction
- Highly Efficient STS, automatic backup power for grid outages
- Multi-level electrical safety and six-dimensional fire protection systems



BATTERY

Nominal capacity	932 kWh
Usable capacity	871.4 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
Battery life cycle	≥6000 times @25°C±2°C 100% DOD, 80% SOH EOL

INVERTER

EU

US

DC Operating voltage range	680 - 950 Vdc	680 - 950 Vdc
Rated DC current	4 x 140 A = 560 A	4 x 140 A = 560 A
Rated DC power	4 x 125 kW = 500 kW	4 x 125 kW = 500 kW
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 line voltage	400 Vac ± 15%	480 Vac -15% ... +10%
AC line frequency	50 Hz	60 Hz
Peak efficiency	98.70%	98.70%

COMMUNICATION

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

OPERATION

Relative operating humidity	0 ~ 95%, no-condensation
Operating temperature range	-25°C ... +50°C
Operating altitude	≤ 2000m

DIMENSIONS (TOTAL)

Dimensions(W x H x D)	2991 x 2591 x 2438 mm
Weight	Approximately 11500 kg

SAFTEY / STANDARDS

Protection	IP54 / NEMA 3R
Safety	IEC 62619, IEC 63056, IEC 60730-1, UN 38.3, VDE-AR-E 2510, EN 62477-1, EN 62109-1/-2, EN 62933-5-2 UL 1973, UL60730-1, UL 9540A, UL 9540, UN 38.3, NFPA 69, NFPA 855
Grid Certification	NRS097-2-1/BESF, RPPs/BESF, VDE-AR-N 4110, AS 4777.2 UL 1741 Supplement SA, UL 1741 Supplement SB, SunSpec compliant, OpenADR California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020
EMC	EN 61000-6-2/-4

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
Usable capacity	1394 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
Battery life cycle	≥6000 times @25°C±2°C 100% DOD, 80% SOH EOL

INVERTER

	EU	US
DC Operating voltage range	1060 - 1450 Vdc	920 - 1380 Vdc
Rated DC current	4 x 140 A = 560 A	4 x 140 A = 560 A
Rated DC power	4 x 187 kW = 748 kW	4 x 175 kW = 700 kW
Rated AC power	4 x 187 kW = 748 kW	4 x 175 kW = 700 kW
Rated AC current	4 x 156 A = 624 A	4 x 168 A = 672 A
AC line voltage	690 Vac -15% ... +10%	600 Vac -15% ... +10%
AC line frequency	50 Hz	60 Hz
Peak efficiency	98.80%	98.80%

COMMUNICATION

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

OPERATION

Relative operating humidity	0 ~ 95%, no-condensation
Operating temperature range	-25°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

SAFETY / STANDARDS

Protection	IP54 / NEMA 3R
Safety	IEC 62619, IEC 63056, EN 62477-1, IEC 60730-1, EN 62933-5-2, UN 38.3 UL1973, UL60730-1, UL 9540A, UL 9540, UN 38.3, NFPA 69 NRS097-2-1/BESF, RPPs/BESF, VDE-AR-N 4110, AS 4777.2
Grid Certification	UL 1741 Supplement SA, UL 1741 Supplement SB, SunSpec compliant, OpenADR California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020

MORE RELIABLE GREEN ENERGY BETTER FUTURE LIFE

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