



RCT POWER CESS 1000

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



RELIABLE POWER SUPPLY

- 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

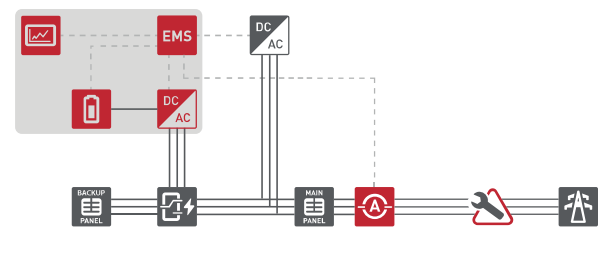
- Software RCT RPEMS
- Peak shaving
- Demand management
- Demand response
- Self-consumption
- Back-up power
- Micro-grids

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



POWER CESS

932-500-01D

699-375-01D

466-250-01D

GENERAL

Nominal Capacity	932 kWh	699 kWh	466 kWh
Usable Capacity(95% DOD)	885.4 kWh	664.05 kWh	442.7 kWh
Maximum Charge/Discharge Rate	0.5C		
Self-Discharge Rate	≤ 3,5 % (Per Month)		
Relative Operating Humidity	0%-95% RH, No-condensation		
Operating Temperature Range	-20°C-45°C		
Storage Temperature Range	-20°C-50°C		
Operating Altitude	≤2000m		
Dimensions (mm)	W2991×H2591×D2438		
Corrosion-proof Grade/Salt Spray Resistance	C4/C5		
Weight	Approximately 11.6 Tons	Approximately 9.7 Tons	Approximately 7.8 Tons
Max. Number Of ESS used in parallel(On-grid)	4	5	8
Max. Number Of ESS used in parallel(Off-grid)	2	2	4
IP Rating	IP54		
Noise Level	≤70dB@1m		
Communication Protocol	Modbus TCP/RTU, CAN		
Black-start Function(Dark start)	Yes		
Auxiliary Power Supply	Self Power Supply		
BMS	Integrated		
EMS	Integrated		

BATTERY

Battery Rack Quantity	4	3	2
Battery Pack Quantity per Rack	5		
Battery Pack Structure	1P52S		
Battery Capacity per Pack	46.592 kWh		
Battery Type	LiFePO4		
DC-side Rated Voltage	832 Vdc		
DC-side Operating Voltage Range	715-928 Vdc		
Cooling Method	Liquid-cooling		
Cycle Lifetime	≥6000cls (80%SOH,25±2°C)		

PCS

DC Operating Voltage Range	680-1000 Vdc		
Max. DC Current	4×198=792 A	3×198=594 A	2×198=396 A
Rated AC Power	4×125=500 kW	3×125=375 kW	2×125=250 kW
Rated AC Current	4×180=720 A	3×180=540 A	2×180=360 A
Rated AC Voltage	400 Vac, 3P+N+PE		
AC Line Frequency	50/60 Hz		
Power Factor Adjustable Range	-1 - 1		
Peak Efficiency	>98.6%		
Long-term Overload Capacity	110%		
Cooling Method	Liquid-cooling		

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、Fire Alarm Control Panel、Emergency Stop Button

STANDARDS

UN 38.3、IEC 62619、IEC 63056、EN 62477、EN 62040、IEC 60730、EN 62933、EN 61000