

RCT POWER CESS 1000

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



easy to expand



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

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

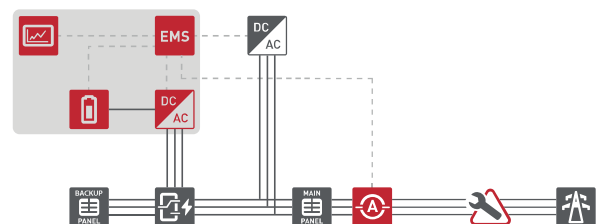
- Software RCT RPEMS
- Peak shaving
- Demand management
- Demand response

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

1000

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

Operating voltage range (DC connection)	680 - 950 Vdc
Rated DC current	4 × 140 A = 560A
Rated DC power	4 × 125 kW = 500kW
Rated AC power	4 × 125 kW = 500kW
Rated AC current	4 × 187 A = 748A
AC line voltage	380 Vac ± 15%
AC line frequency	50 / 60 Hz
Peak efficiency	98.60%

ENERGY MANAGEMENT SYSTEM

EMS	Integrated
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COMMUNICATION

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

OPERATION

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

DIMENSIONS (TOTAL)

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

SAFETY / STANDARDS

Protection	IP54
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

WARRANTY

Warranty	5 years
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