



RCT POWER CESS 1500

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



RELIABLE POWER SUPPLY

- 1491 kWh outdoor-rated container storage system
- Storage of excess 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

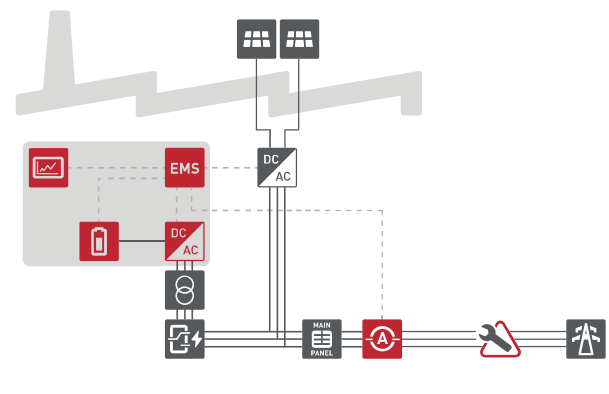
- Software RCT RPEMS
- Self-Consumption
- Peak shaving
- Demand management
- Demand response

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

- Small footprint, space saving
- Non-walk-in double-sided door design
- Multiple container system in parallel supported



POWER CESS

1500

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

Operating voltage range (DC connection)	1060 - 1450 Vdc
Rated DC current	4 x 140 A = 560 A
Rated DC power	4 x 187 kW = 748 kW
Rated AC power	4 x 205.7 kW = 822.8 kW
Rated AC current	4 x 156 A = 624 A
AC line 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
Touch panel	15,6" industrial standard
Cloud	Yes
App	Yes

OPERATION

Relative operating humidity	0 ~ 95 %, on-condensation
Operating temperature range	-25°C ... +45°C
Operating altitude	≤ 2000 m

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
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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