



RCT POWER CESS 200

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



PV-module connection



back-up power



manage energy sources and tariffs



increase self-sufficiency

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- Backup power for grid outages
- Solar integration, storing excess solar 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

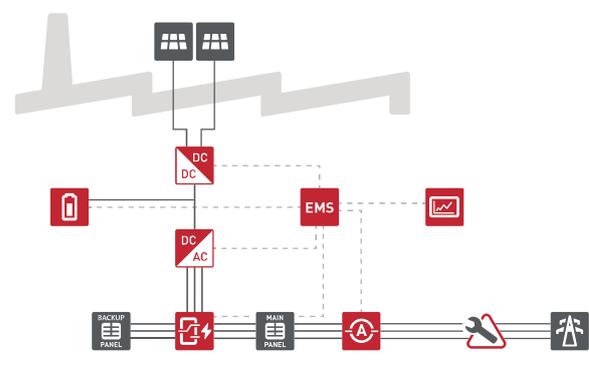
- Software RCT RPEMS
- Self-Consumption
- Back-up power
- Peak shaving
- Micro-grids
- Demand management
- Demand response
- PV-storage integration

HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Automatic back-up power switching within 50ms

EASY OPERATION

- Modular, scalable design for precise project sizing
- Unlimited number of cabinets in parallel
- Optional DC/DC converter for PV-module connection



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

Operating voltage range (DC connection)	650 - 950 Vdc
Rated DC current	140 A
Rated DC power	110 kW
Rated AC power	100 kW
Rated AC current	145 A
AC line voltage	400 Vac ± 15%
AC line frequency	50 / 60 Hz
Peak efficiency	98.50%

CONVERTER (OPTIONAL)

Max. number of MPPTs	2
Max. string voltage	1000 Vdc
String operating voltage	200-950 Vdc
Max. current	80 A
Max.power @ 25°C	100 kW

BACKUP POWER (OPTIONAL)

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	< 50 ms

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)	1600 x 2200 x 1300 mm
Weight	Approximately 3300 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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