

# POWER CESS 200

## INDUSTRIAL CABINET 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

### ENERGY MANAGEMENT

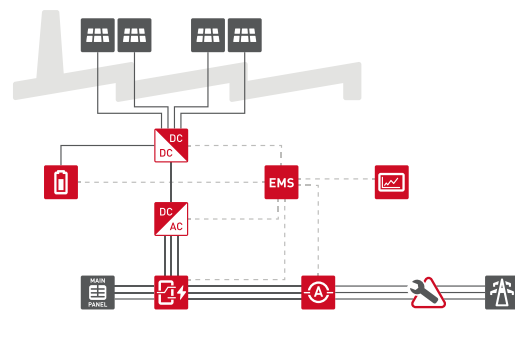
- Software RCT RPEMS
- Back-up power
- Peak shaving
- Micro-grids
- Demand mitigation
- Rate arbitration

### SMART & EFFICIENT

- 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

### UNIQUE FLEXIBILITY

- Modular, scalable design for precise project sizing
- Direct PV-module DC connection



## BATTERY

Nominal capacity	233 kWh
Usable capacity (90 % DoD)	209 kWh
Battery technology	LiFePO <sub>4</sub> (LFP)
Charge / discharge rate	0,5C
Battery pack structure	1P52S
Cooling	Liquid cooling
BMS	Integrated
Rated DC voltage	832 V
DC voltage range	663~936 V
Automatic backup switch function	Yes
Battery life cycle	≥ 6000 times @ 25°C ± 2°C and 0,5C charge/ discharge energy retention 80% SOH

## INVERTER

Operating voltage range (DC connection)	650 - 950 V
Max DC current	150 A
Max AC power	110 kVA
Max AC current	145 A
AC line voltage	400 V ± 15 %, , 3-phase
AC line frequency	50 Hz
Peak efficiency	98,2 %

## CONVERTER

Max. number of MPPTs	2
Max. string DC voltage	1000 V
String operating voltage	200 – 950 V
Max. current	80 A
Reverse polarity protection	Yes
Max. power @25°C	2 x 50 kW = 100 kW

## BACKUP POWER

Grid port power	200 kW
Grid port rated current	290 A
AC/DC port power	100 kW
Load port power	100 kW
Rated Range	50 Hz
Switch time	From on-grid to off-grid: ≤50ms ; from off-grid to on-grid: 3 minutes

## 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...+45°C
Operating altitude	≤ 2000 m

## DIMENSIONS (TOTAL)

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

## SAFTEY / 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 Sprinkl
Certification	IEC 62619 / IEC 63056 / EN 62477-1 / IEC 60730-1 / EN 62933-5-2 / UN 38.3 / EN 62109-1/-2 EN 61000-6-2/-4 / VDE-AR-N 4105 /4110	

## WARRANTY

Warranty	5 years (option: 10 years)
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