



POWER CESS 200 DC

INDUSTRIAL CABINET ENERGY STORAGE SYSTEM



PV-module connection



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

POWER CESS 200

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- All-in-one solution incl. direct solar electricity storage
- Automatic backup power for grid outages

SAFE TECHNOLOGY

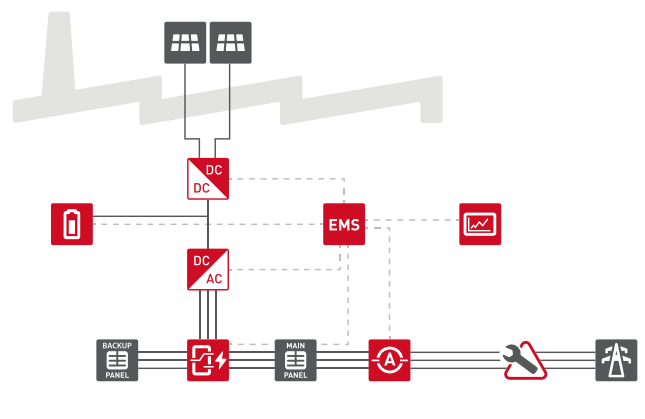
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

- Optimize self-consumption
- Back-up power
- Peak shaving
- Micro-grids
- Demand mitigation
- Rate arbitration

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- DC/DC converter with solar input
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Multi-parallel system supported



POWER CESS

200 DC

BATTERY

Nominal capacity	233 kWh
Usable capacity (90 % DoD)	209.7 kWh
Battery technology	LFP
Charge / discharge rate	0.5 P (constant power)
Cooling method	liquid cooling
BMS (Battery Management System)	integrated
Rated DC voltage	832 V
DC voltage range	715 Vdc-928 Vdc
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH

INVERTER

Operating voltage range (DC connection)	650 - 950 V
Max DC current	150 A
Rated AC power	100 kW
Max AC power	110 kW
Max AC current	145 A
Rated AC line voltage	400 V ± 15 %, 3P+N+PE
Rated AC line frequency	50 Hz

CONVERTER

Max. number of MPPTs	2
MPPT operating voltage range	200 Vdc - 950 Vdc
Max. current per MPPT	80 A
Max. power	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 frequency	50 Hz
Switch time	grid to backup <50ms

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	aprox. 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
Certification	EN IEC 62619, EN IEC 63056, EN 62477-1, EN 61000-6-2/-4, UN38.3, EN IEC 60730-1, EN 62109-1/-2, EN 62477-1, EN 61000-6-2/-4, EN 62933-5-2, NRS097-2-1/BESF, VDE-AR-N 4105, VDE-AR-N 4110, AS 4777.2, CE declaration

WARRANTY

Warranty	10 years
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