

POWER CESS 200 DC

POWER CESS

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INDUSTRIAL CABINET ENERGY STORAGE SYSTEM

PV-module connection

store and trade energy

manage energy sources and tarifs

increase self-sufficiency

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

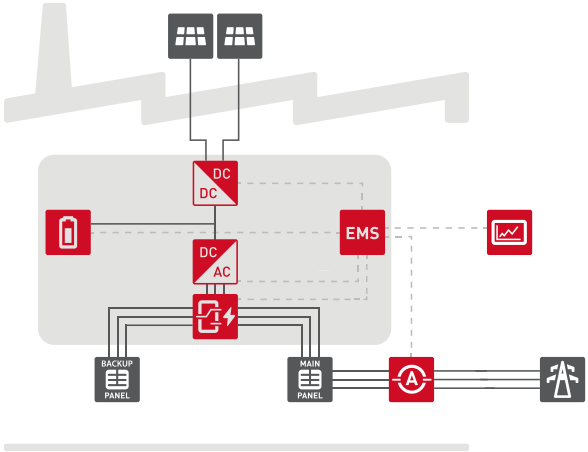
- Multi-level protection
- Lithium iron phosphate ($LiFePO_4$) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

SMART & HIGH EFFICIENCY

- Highly efficient AC/DC inverter
- DC/DC converter with solar input
- Smart energy monitoring cloud platform for remote monitoring and control
- Intellige nt charging and reduction of peak loads
- High degree of performance
- Parallel installation (on-grid: up to 12; off-grid: up to 5)



POWER CESS*	200 DC STS	200 AC STS	200 DC	200 AC
BATTERY				
Nominal Capacity	233 kWh			
Usable Capacity (95% DoD)	221 kWh			
Battery Technology	$LiFePO_4$ (LFP)			
Charge/Discharge Rate	0,5 C			
DC Voltage Range	715 ... 928 V			
DC Nominal Voltage	832 V			
Cooling	Liquid Cooling			
Self Discharge Rate	≤3,5% per Month			
DC INPUT				
MPPT	2	n.v.	2	n.v.
Maximum DC Current per MPPT	80 A	n.v.	80 A	n.v.
DC Starting Voltage	200 V	n.v.	200 V	n.v.
DC Rated Power	100 kW	n.v.	100 kW	n.v.
MPP Voltage Range	180 V ... 900 V	n.v.	180 V ... 900 V	n.v.
Maximum DC Voltage	950 V	n.v.	950 V	n.v.
AC OUTPUT (Grid Operation)				
AC Rated Power	100 kW			
Maximum AC Currennt per Phase	144 A			
Rated Frequency	50 Hz / 60 Hz			
AC Rated Voltage	230 V / 400 V (L1, L2, L3, N, PE)			
BACKUP				
AC Rated Power	100 kW	100 kW	n.a.	n.a.
AC Rated Voltage	230 V / 400 V (L1, L2, L3, N, PE)	230 V / 400 V (L1, L2, L3, N, PE)	n.a.	n.a.
Maximum AC Current per Phase	144 A	144 A	n.a.	n.a.
Rated Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz	n.a.	n.a.
Long-term Overload Capacity	110 %	110 %	n.a.	n.a.
PERFORMANCE DATA				
Maximum Efficiency PV to Battery	99 %	n.a.	99 %	n.a.
Maximum Efficiency Battery to AC Output	>98,5 %			
GENERAL				
Dark Start	Yes			
Cooling Power Electronics	Air Cooling			
IP Protection Class	54 (Battery Room IP55)			
Operating Temperature Range	-25 °C ... +45 °C			
Storage Temperature Range	-20 °C ... +50 °C			
Maximum Relative Humidity	0 - 95 % (non-condensing)			
Typical Noise Level	≤ 70 dB @1 m			
Corrosion-proof Grade/Salt Spray Resistance	C4			
Maximum Installation Height Above Sea Level	2000 m			
Dimensions (Width x Height x Depth)	1600 x 2200 x 1300 mm			
Weight	3200 kg	3150 kg	3150kg	3100kg
BMS	Integrated			
COMMUNICATION / INTERFACES				
Communication Protocol	Modbus TCP / RTU, CAN			
Communication Interfaces	Ethernet, CAN, RS485, MFR			
Energy Management System (EMS)	Integrated			
STANDARDS				
Safety	IEC 60730, EN 62477, IEC 62619, EN 62933, IEC 63056, UN 38.3			
EMC	EN 61000			
SAFETY				
Detection and Extraction	Yes			
Smoke Sensor	Yes			
Temperature Sensor	Yes			
Fire Extinguishing Agent	Aerosol			
Audible and Visual Alarm	Yes			
Dry Pipe and Sprinkler System	Yes			
Emergency Stop	Yes			

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* For specific details, please refer to the RCT power warranty documentation.

RCT power