

POWER CESS
900 AC | 700 AC | 450 AC

INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM

high scalability

store and trade energy

manage energy sources efficiently

increase self-sufficiency

RELIABLE POWER SUPPLY

- 466-932 kWh outdoor-rated container storage system
- AC coupled system
- Automatic backup power for grid outages

SAFE TECHNOLOGY

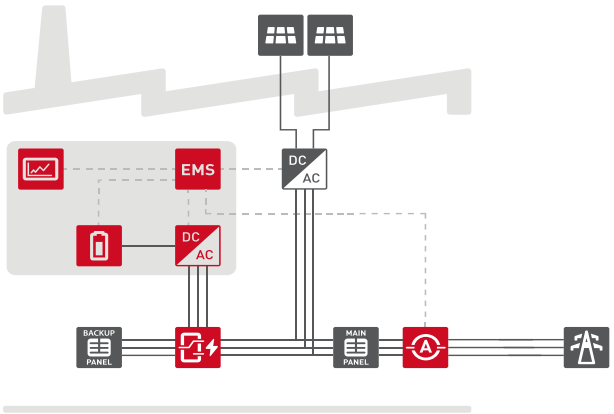
- Multi-level protection
- Lithium iron phosphate ($LiFePO_4$) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

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 power conversion system
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance
- Parallel installation (on-grid: up to 12; off-grid: up to 5)



POWER CESS*	900 AC	700 AC	450 AC
BATTERY			
Nominal Capacity	932 kWh	699 kWh	466 kWh
Usable Capacity (95% DoD)	885 kWh	664 kWh	442 kWh
Battery Technology		$LiFePO_4$ (LFP)	
Charge/Discharge Rate		0,5 C	
Number of Cycles at 80 % Remaining Capacity		6000	
DC Voltage Range		715 ... 928 V	
DC Nominal Voltage		832 V	
Cooling		Liquid Cooling	
Self Discharge Rate		≤3,5% per Month	
AC OUTPUT (Grid Operation)			
AC Rated Power	4 x 125kW=500 kW	3 x 125 kW=375 kW	2 x 125kW=250 kW
AC Rated Current	4 x 180 A=720 A	3 x 180 A=540 A	2 x 180 A=360 A
Rated Frequency		50 Hz / 60 Hz	
AC Rated Voltage		230 V / 400 V (L1, L2, L3, N, PE)	
PERFORMANCE DATA			
Maximum Efficiency Battery to AC Output		98,60 %	
GENERAL			
Dark Start		Yes	
Cooling Power Electronics		Liquid Cooling	
IP Protection Class		54	
Ambient Temperature Range		-20 °C ... +45 °C	
Storage Temperature Range		-20 °C ... +50 °C	
Maximum Relative Humidity		0 - 95 % (non-condensed)	
Typical Noise Level		≤ 70 dB @1 m	
Corrosion-proof Grade/Salt Spray Resistance		C4 / C5 optional	
Maximum Installation Above Sea Level		2000 m	
Dimensions (Width x Height x Depth)		2991 x 2591 x 2438 mm	
Weight	11600 kg	9700 kg	7800 kg
BMS		Integrated	
COMMUNICATION / INTERFACE			
Communication Protocol		Modbus TCP / RTU	
Energy Management System (EMS)		Integrated	
STANDARDS			
Safety		IEC 60730, EN 62477, IEC 62619, EN 62933, IEC 63056, EN 62040, UN 38.3	
Public Grid		EN 61000	
SAFETY			
Detection and Extraction of Flammable and Explosive Gases		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