



POWER CESS

900 AC | 700 AC | 450 AC

INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM



PV-module connection



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

POWER CESS 900 AC | 700 AC | 450 AC

RELIABLE POWER SUPPLY

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

SAFE TECHNOLOGY

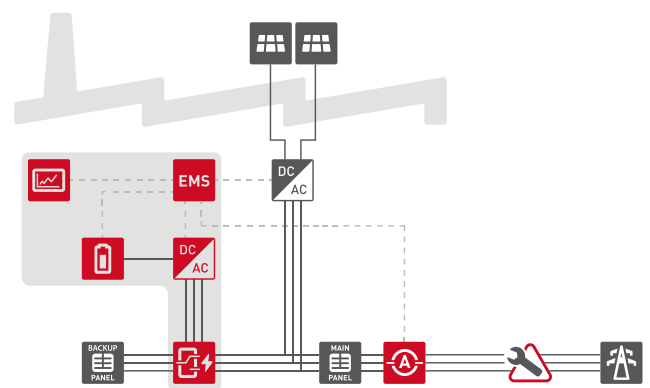
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

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
- 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

900 AC

700 AC

450 AC

BATTERY

Nominal capacity	932 kWh	699 kWh	466 kWh
Usable capacity (93,5 % DoD)	871 kWh	635.5 kWh	435.7 kWh
Battery technology	LFP		
Charge/discharge rate	0.5 P		
Battery pack structure	1P52S (46.59 kWh) liquid cooled		
BMS	integrated		
Battery life cycle	≥ 6000 times @ 25 °C ±2 °C 0.5 P charge / discharge energy retention 80 % SOH		

INVERTER

Rated AC power	500 kW	375 kW	250 kW
DC-side operating voltage range	680 - 950 Vdc		
Rated AC current	720 A	540 A	360 A
AC line voltage	400 Vac (- 15 % to 15 %)		
Rated AC line frequency	50 / 60 Hz		
Current harmonics	< 3 % @ rated AC power		
Cooling Method	liquid cooled		

STS

Grid port power	1000 kW	750 kW	500 kW
Grid port rated current	1440 A	1080 A	720 A
Load port power	500 kW	375 kW	250 kW
Long-term overload capacity	110%		
Switch Time	20 ms from On-grid to Off-grid and Off-grid to On-grid		
Corrosion-proof Grade/Salt Spray Resistance	C4		
Dark Start	yes		

ENERGY MANAGEMENT SYSTEM

EMS	integrated		
-----	------------	--	--

COMMUNICATION

Touch panel	15,6" industrial standard		
Communication protocol	Modbus TCP/RTU		
Cloud	yes		
App	yes		

OPERATION

Noise Level	≤75dB@1m		
Relative operating humidity	0-95 %, no-condensation		
Operating temperature range	-25 °C... +50 °C		
Operating altitude	≤ 2000m		

DIMENSIONS

Dimensions (W x H x D)	2991 x 2591 x 2438 mm		
Weight	aprox 11500 kg	aprox 9600 kg	aprox 7800 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 i. Fire alarm control panel
Certification	UN38.3, EN IEC 60730-1, EN 61000-6-2/-4, EN 62109-1/-2, EN 62477-1, EN IEC 62619, EN 62933-5-2, EN IEC 63056, VDE-AR-N 4105, VDE-AR-N 4110, NRS097-2-1/BESF		

WARRANTY

Warranty	10 years		
----------	----------	--	--