

POWER CESS 1000 US SERIES

RELIABLE POWER SUPPLY

- 466-932 kWh outdoor-rated container storage system
- AC coupled system

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

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

POWER CESS 1000 US SERIES

INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM







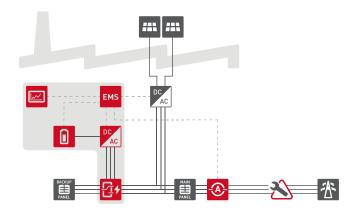




increase self-sufficier

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 class 2 hour system	900 class 4 hour system	700 class 2 hour system	450 class 2 hour system
	932-500-02D	932-250-02D	699-375-02D	466-250-02D
BATTERY				
Nominal capacity	932 kWh	932 kWh	699 kWh	466 kWh
Usable capacity (93.5 % DoD)	871 kWh	871 kWh	654 kWh	436 kWh
Battery technology	LiFePO ₄			
Charge/discharge rate	≤ 0.5 P			
Battery pack structure	1P52S (46.59 kWh) liquid coc	led		
BMS	integrated			
Battery life cycle	≥ 6000 times @77 °F ± 36 °F	0,5 P 93.5 % DOD, 80 % S	SOH EOL	
INVERTER				
Rated AC power	500 kW (125 kW x 4)	250 kW	375 kW	250 kW
DC-side operating voltage range	680 - 950 Vdc			
Rated AC current	600 A (150 A x 4)	300 A	450 A	300 A
AC line voltage	480 Vac (- 15 %-+10 %)			
Rated AC line frequency	60 Hz			
Current harmonics	< 3 % @ rated AC power			
Cooling Method	Liquid			
STS				
Grid port power	1000 kW (250 kW x 4)	500 kW	750 kW	500 kW
Grid port rated current	1200 A (300 A x 4)	600 A	900 A	600 A
Load port power	500 kW (125 kW x 4)	250 kW	375 kW	250 kW
Long-term overload capacity	110 %			
From On-grid to Off-grid Switch Time	20 ms			
From Off-grid to On-grid Switch Time	20 ms			
Corrosion-proof Grade/Salt Spray Resistance	e C4			
Dark Start	Yes			
ENERGY MANAGMENT SYSTEM				
EMS	Molecule Systems mOS (opti	onal)		
		,		
COMMUNICATION				
Touch panel	15.6" industrial standard			
Communication protocol	Modbus TCP/RTU			
Cloud	yes			
Арр	yes			
OPERATION				
Noise Level	≤75dB@1m			
Relative operating humidity	0-95 %, no-condensation			
Operating temperature range	-13 °F +122 °F (-25 °C ~ +50) °C)		
Operating altitude	≤ 6500 ft			
DIMENSIONS				
Dimensions (W x H x D)				
Weight	118" x 102" x 96"			
SAFTEY/STANDARDS	118" x 102" x 96" aprox 25,000 lbs	aprox 24,000 lbs	aprox 21,000 lbs	aprox 17,000 lbs
SALILI/ STANDANDS		aprox 24,000 lbs	aprox 21,000 lbs	aprox 17,000 lbs
Protection Protection		aprox 24,000 lbs	aprox 21,000 lbs	aprox 17,000 lbs
	aprox 25,000 lbs	detection	e. Aerosol fire extingu f. Siren and strobe ala g. Emergency stop bu h. Dry pipe and sprink	ish rm tton
Protection	aprox 25,000 lbs IP54/NEMA 3R a. Flammable / explosive gas b. Flammable / explosive gas c. Smoke detection	detection exhaust t SB - 3rd Edition, UL 174	e. Aerosol fire extingu f. Siren and strobe ala g. Emergency stop bu h. Dry pipe and sprink 1 Supplement SA - 3rd E	ish rm tton le dition, SunSpec com-
Protection Safety features	aprox 25,000 lbs IP54/NEMA 3R a. Flammable / explosive gas b. Flammable / explosive gas c. Smoke detection d. Temperature detection UL9540, UL 1741 Supplemen	detection exhaust t SB - 3rd Edition, UL 174	e. Aerosol fire extingu f. Siren and strobe ala g. Emergency stop bu h. Dry pipe and sprink 1 Supplement SA - 3rd E	ish rm tton le dition, SunSpec com-

