



POWER CESS 900 US | 700 US | 450 US

RELIABLE POWER SUPPLY

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

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

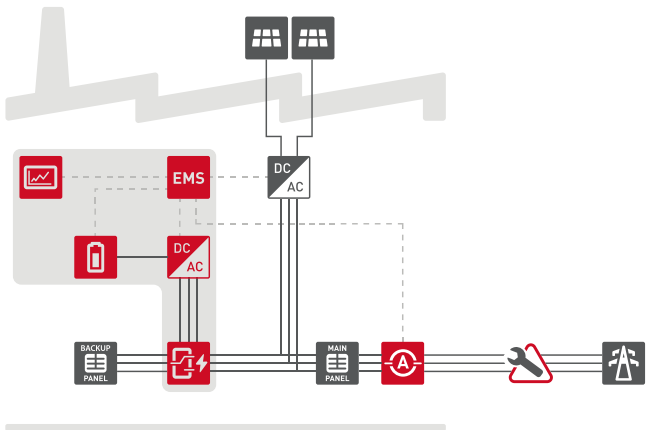
POWER CESS  
900 US | 700 US | 450 US

INDUSTRIAL CONTAINER  
ENERGY STORAGE SYSTEM



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

BATTERY

Nominal capacity	932 kWh	932 kWh	699 kWh	466 kWh
Usable capacity (93.5 % DoD)	871 kWh	871 kWh	657 kWh	438 kWh
Battery technology	LiFePO <sub>4</sub>			
Charge/discharge rate	0.5 P			
Battery pack structure	1P52S (46.59 kWh) liquid cooled			
BMS	integrated			
Battery life cycle	≥ 6000 times @ 77 °F ±3.6 °F 0.5 P charge / discharge energy retention 80 % SOH			

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			
Noise Level	≤75dB@1m			
Corrosion-proof Grade/Salt Spray Resistance	C4			
Dark Start	Yes			

ENERGY MANAGMENT SYSTEM

EMS	Molecule Systems mOS (optional)
-----	---------------------------------

COMMUNICATION

Touch panel	15.6" industrial standard
Communication protocol	Modbus TCP/RTU
Cloud	yes
App	yes

OPERATION

Relative operating humidity	0-95 %, no-condensation
Operating temperature range	-13 °F... +122 °F
Operating altitude	≤ 6500 ft

DIMENSIONS

Dimensions (W x H x D)	118" x 102" x 96"			
Weight	aprox 24,000 lbs	aprox 24,000 lbs	aprox 18,000 lbs	aprox 12,000 lbs

SAFTEY / STANDARDS

Protection	IP54/NEMA 3R		
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	UL1973, UN38.3, UL60730-2, UL9540A, UL9540, NFPA 69, UL 1741 Supplement SB - 3rd Edition, UL 1741 Supplement SA - 3rd Edition, SunSpec compliant, California Rule 21 compliant, IEEE2030.5, IEEE1547-2018, IEEE1547.1-2020, OpenADR
---------------	---

WARRANTY

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

