

POWER CESS 900 US | 700 US | 450 US

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INDUSTRIAL CONTAINER ENERGY STORAGE SYSTEM

back-up power supply

store and trade energy

manage energy sources and tarifs

increase self-sufficiency

RELIABLE POWER SUPPLY

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

SAFE TECHNOLOGY

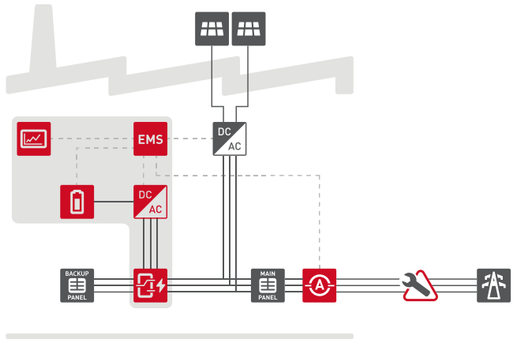
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

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 US/500kW 2 hour system	900 US/250kW 4 hour system	700 US/375kW 2 hour system	450 US/250kW 2 hour system
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	$LiFePO_4$			
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			

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plunk it!