



POWER CESS 1000 US SERIES

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



back-up
power supply



energy store
and trade



manage energy
sources and tariffs



increase
self-sufficiency

RELIABLE POWER SUPPLY

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

SAFE TECHNOLOGY

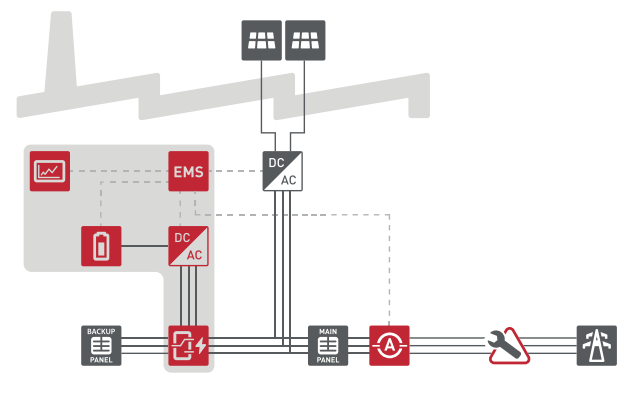
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

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

932-500-01D

699-375-01D

466-250-02D

GENERAL

Nominal Capacity	932 kWh	699 kWh	466 kWh
Usable Capacity(95% DOD)	885.4 kWh	664.05 kWh	442.7 kWh
Maximum Charge/Discharge Rate	0.5C		
Self-Discharge Rate	≤3.5% (Per Month)		
Relative Operating Humidity	0%-95% RH, No-condensation		
Operating Temperature Range	-4°F-113°F		
Storage Temperature Range	-4°F-122°F		
Operating Altitude	≤2000m		
Dimensions (mm)	W2991×H2591×D2438		
Corrosion-proof Grade/Salt Spray Resistance	C4/C5		
Weight	Approximately 25000 lbs	Approximately 21000 lbs	Approximately 17000 lbs
Max. Number of ESS used in parallel (ON-grid)	4	5	8
Max. Number of ESS used in parallel (Off-grid)	2	2	4
IP Rating	IP54		
Noise Level	≤70dB@1m		
Communication Protocol	Modbus TCP/RTU, CAN		
Black-start Function(Dark start)	Yes		
Auxiliary Power Supply	Self Power Supply		
BMS	Integrated		
EMS	Integrated		

BATTERY

Battery Rack Quantity	4	3	2
Battery Pack Quantity per Rack	5		
Battery Pack Structure	1P52S		
Battery Capacity per Pack	46.592 kWh		
Battery Type	LiFePO4		
DC-side Rated Voltage	832 Vdc		
DC-side Operating Voltage Range	715-928 Vdc		
Cooling Method	Liquid-cooling		
Cycle Lifetime	≥6000cls (80%SOH,25±2°C)		

PCS

DC Operating Voltage Range	700-950 Vdc		
Max. DC Current	4×196=784 A	3×196=588 A	2×196=392 A
Rated AC Power	4×125=500 kW	3×125=375 kW	2×125=250 kW
Rated AC Current	4×150=600 A	3×150=450 A	2×150=300 A
Rated AC Voltage	480 Vac, 3P+N+PE		
AC Line Frequency	60 Hz		
Power Factor Adjustable Range	-1 - 1		
Peak Efficiency	>98.6%		
Long-term Overload Capacity	110%		
CEC Efficiency	98%		
Cooling Method	Liquid-cooling		

SAFETY FEATURE

Flammable/explosive Gas Detection、Flammable/explosive Gas Exhaust、Smoke Detection、Temperature Detection、Aerosol Fire Suppression、Siren and Strobe Alarm、Dry Pipe and Sprinkle、Fire Alarm Control Panel、Emergency Stop Button

STANDARDS

UN 38.3、UL 1973、UL 60730、UL 9540、UL 9540A、NFPA 69、UL 1741、UL 1741CRD