



POWER CESS 200 US

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



high efficiency



energy store
and trade



manage energy
sources and tariffs



increase
self-sufficiency

RELIABLE POWER SUPPLY

- 233 kWh outdoor-rated cabinet storage system
- ALL-IN-ONE solution

SAFE TECHNOLOGY

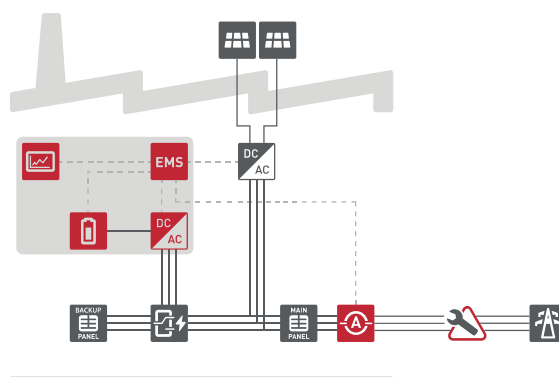
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

ENERGY MANAGEMENT SYSTEM

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

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

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GENERAL

Nominal Capacity	233 kWh
Usable Capacity(95% DOD)	221.35 kWh
Maximum Charge/Discharge Rate	0.5C
Self-Discharge Rate	≤3.5% (Per Month)
Round Trip Efficiency	>85%
Relative Operating Humidity	0%-95% RH, No-condensation
Operating Temperature Range	-13°F-113°F
Storage Temperature Range	-4°F-122°F
Operating Altitude	≤2000m
Dimensions (mm)	W1600×H2200×D1300
Corrosion-proof Grade/Salt Spray Resistance	C4
Weight	Approximately 7055 lbs
Max. Number of ESS used in parallel (ON-grid)	16
Max. Number of ESS used in parallel (Off-grid)	8
IP Rating	IP54 (Battery room IP55)
Noise Level	≤70dB
Communication Protocol	Modbus TCP/RTU, CAN
Black-start Function(Dark start)	Yes
AC Line Frequency	60Hz
Auxiliary Power Supply	Outside Power Supply
BMS	Integrated
EMS	Integrated

BATTERY

Battery Rack Quantity	1
Battery Pack Quantity Per Rack	5
Battery Pack Structure	1P52S
Battery Capacity per Pack	46.592 kWh
Battery Type	LiFePO ₄
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	700-1000 Vdc
Max. DC Current	198 A
Rated AC Power	125 kW
Rated AC Current	150 A
Rated AC Voltage	480 Vac, 3P+N+PE
AC Line Frequency	60Hz
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、Emergency Stop Button

STANDARDS

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