



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

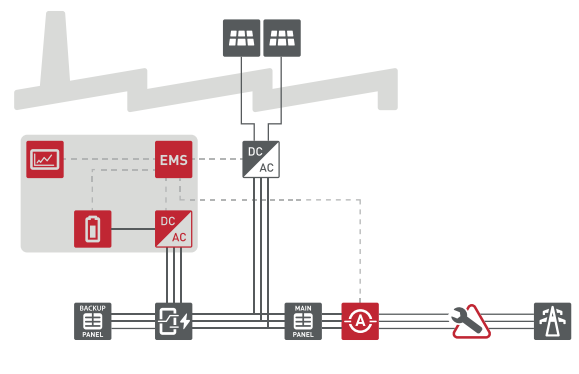
- Multi-level protection
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- Preinstalled liquid cooled RCT Power Battery modules
- Integrated multi-level battery management system (BMS) assures optimized and well-balanced power storage

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

200 US

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) |
| 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