



RCTerra Pro 1.0

932-500-02D

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



easy to expand



store and trade energy



manage energy sources and tariffs



increase self-sufficiency

RELIABLE POWER SUPPLY

- 932 kWh outdoor-rated container storage system
- 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

SMART ENERGY MANAGEMENT

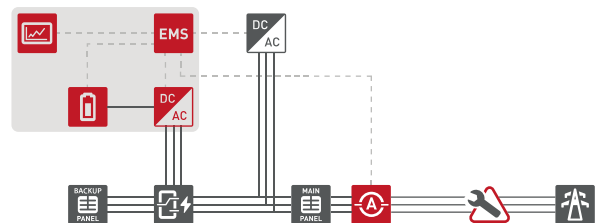
- Off-grid Operation
- Self-consumption
- T.O.U.(Time of use)
- Peak shaving
- Third-party Power Dispatching
- Backup Power Supply

HIGH EFFICIENCY

- Highly efficient PCS for each battery rack independently
- Smart energy monitoring cloud platform for remote monitoring and control
- Intelligent charging and reduction of peak loads
- High degree of performance

EASY OPERATION

- Modular, scalable design for precise project sizing
- Non-walk-in double-sided door design
- Multi-parallel system supported



RCTerra Pro 1.0

932-500-02D

699-375-02D

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, Non-condensing		
Operating Temperature Range	-4°F ~ 113°F		
Storage Temperature Range	-13°F ~ 122°F (recommended 32°F ~ 86°F)		
Operating Altitude	≤2000m		
Dimensions (mm)	W2991×H2591×D2438		
Corrosion-proof Grade of Cabinet	C4		
Weight	Approximately 11.6 T	Approximately 9.7 T	Approximately 7.8 T
IP Rating	IP54(Battery room IP55)		
Noise Level	≤70dB		
Communication Protocol	Modbus TCP/RTU, CAN		
Black-start Function(Dark start)	Yes		
Auxiliary Power Supply	Self-powered		
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	LiFePO ₄		
DC-side Rated Voltage	832 Vdc		
DC-side Operating Voltage Range	715~928 Vdc		
Cooling Concept	Liquid-cooling		
Cycle Lifetime of Cell	≥6000cls (70%SOH,25±2°C)		

PCS

DC Operating Voltage Range	750~950 Vdc		
Max. DC Current	784 A	588 A	392 A
Rated AC Power	500 kW	375 kW	250 kW
Rated AC Current	600 A	450 A	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%		
Cooling Concept	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

UL 1973, UL 9540A, UL 60730-1 Annex H, NFPA 69, UL 9540, UL 1741CRD, UN38.3