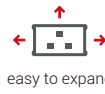




# RCTerra Pro 1.0

## 932-500-01D

### 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

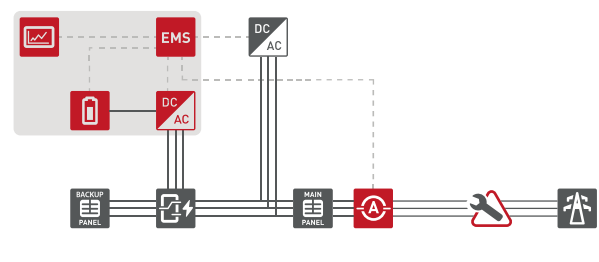
- Off-grid Operation
- Self-consumption
- T.O.U(Time of use)
- Peak shaving
- Third-party Power Dispatching
- Backup Power Supply

## 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

932-500-01D

699-375-01D

466-250-01D

### 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      | -20℃ ~ 45℃                        |                     |                     |
| Storage Temperature Range        | -25℃ ~ 50℃(recommended 0℃ ~ 30℃ ) |                     |                     |
| 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 <sub>4</sub>     |   |   |
| 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℃) |   |   |

### PCS

|                               |                  |        |        |
|-------------------------------|------------------|--------|--------|
| DC Operating Voltage Range    | 680~1000 Vdc     |        |        |
| Max. DC Current               | 792 A            | 594 A  | 396 A  |
| Rated AC Power                | 500 kW           | 375 kW | 250 kW |
| Rated AC Current              | 720 A            | 540 A  | 360 A  |
| Rated AC Voltage              | 400 Vac, 3P+N+PE |        |        |
| AC Line Frequency             | 50/60 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

EN IEC 62619, IEC 63056, EN 62477-1, IEC 60730-1 Annex H, IEC 62040-1, EN 62933-5-2, EN IEC 61000-6-2&-6-4, VDE-AR-E 2510-50, UN38.3, RED