

# POWERING UP YOUR BUSINESS

COMMERCIAL & INDUSTRIAL  
ENERGY STORAGE SYSTEM SOLUTIONS





## RCTerra Class 2.0

**261-125-01D**



w-maintenance



back-up power



manage energy  
sources and tariffs



increase  
self-sufficiency

### HIGH EFFICIENT POWER SUPPLY

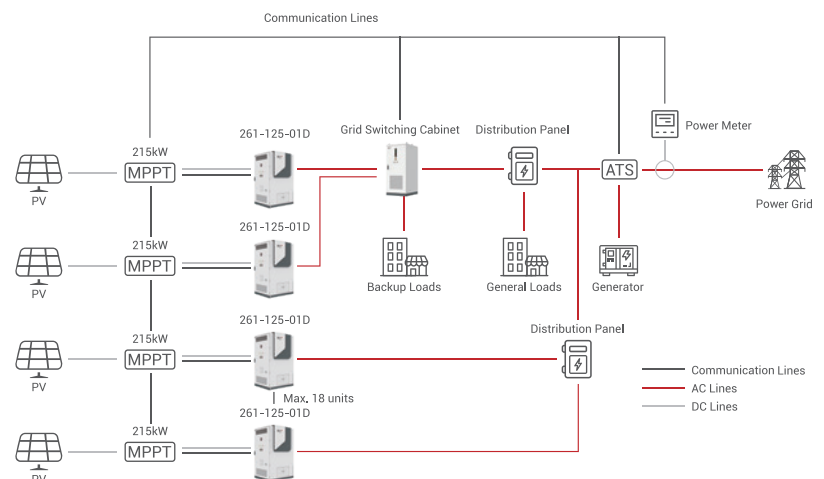
- 261 kWh commercial and industrial energy storage system equipped with 314 Ah battery cells  
Modular, High-efficiency PCS
- Smart Energy Cloud Platform
- Multi-unit parallel support for the flexible capacity  
The Grid Switching Cabinet is compatible

### SAFETY TECHNOLOGY

- Five-Tier Protection System: Cell-level Protection, Pack-level Shutdown, Rack-level Disconnect, PCS Isolation, Container-level Electrical Disconnect
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- A three-stage fire system ensures safety. continuous cell-level monitoring for early detection, automatic aerosol suppression at the source, and integrated water sprinklers for full compartment protection
- Integrated multi-level battery management system(BMS) assures optimized and well-balanced power storage

### APPLICATION SCENARIOS

- Self-consumption
- Backup Power
- Peak Shaving
- PV-ESS Microgrid
- Demand Control
- Third-party Power Dispatching



## RCTerra Class 2.0

261-125-01D

### GENERAL

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Nominal Energy                   | 261 kWh                             |
| Usable Energy (95% DOD)          | 247.95 kWh                          |
| Maximum Charge/Discharge Rate    | 0.5 P                               |
| Relative Operating Humidity      | 0%-95% RH, Non-condensing           |
| Operating Temperature Range      | -30°C-50°C(>45°C derating)          |
| Storage Temperature Range        | -35°C-55°C(Recommended 0°C to 30°C) |
| Operating Altitude               | ≤3000 m (>2000 m derating)          |
| Dimension (mm)*                  | W1130 × D1385 × H2328               |
| Corrosion-proof Grade of Cabinet | C4 (C5 Optional)                    |
| Weight                           | Approximately 2700 kg               |
| IP Rating                        | IP54                                |
| Noise Level                      | ≤70 dB (63dB Optional)              |
| Communication Protocol           | Modbus TCP                          |
| Off-grid Operation               | Yes                                 |
| BMS                              | Integrated                          |
| EMS                              | Integrated                          |

### DC SIDE

|                                 |                               |
|---------------------------------|-------------------------------|
| Battery Pack Quantity           | 5                             |
| Battery Pack Structure          | 1P52S                         |
| Battery Energy per Pack         | 52.25 kWh                     |
| Battery Type                    | LiFePO <sub>4</sub>           |
| DC-side Rated Voltage           | 832 Vdc                       |
| DC-side Operating Voltage Range | 689-930.8 Vdc                 |
| Cooling Method of Pack          | Liquid-cooling                |
| Cycle Lifetime of Battery Cell  | ≥8000 cycles (70%SOH, 25±2°C) |

### AC SIDE

|                               |                  |
|-------------------------------|------------------|
| Rated AC Power                | 125 kW           |
| Rated AC Current              | 180 A            |
| Rated AC Voltage              | 400 Vac, 3P+N+PE |
| AC Line Frequency             | 50/60 Hz         |
| Long-term Overload Capacity   | 110%             |
| Power Factor Adjustable Range | -1-+1            |

### SAFETY FEATURE

Flammable/explosive Gas Detection, Flammable/explosive Gas Exhaust, Smoke Detection Temperature Detection, Aerosol Fire Suppression, Siren and Strobe Alarm, Water Fire Suppression, Emergency Stop Button

### STANDARDS

IEC 62619, IEC 63056 (62477-1 & 62619 Cover), IEC 60730-1 Annex H, EN 62477-1, EN 62040-1, EN 61000-6-2/-4 (EMC), EN 62933-5-2, VDE-AR-E 2510-50, UN 38.3

#### \*Note:

1. The foundation dimension of the cabinet is **1130mm×1385mm**. If we consider the decorative trim and the door lock, the maximum dimension is **W1184mm×D1421mm×H2328mm**.
2. Please contact our sales if you want to know of other relevant certifications.
3. The decorative trim of this product is an optional configuration, the standard product does not have it.



## RCTerra Pro 2.0

1044-500-01D



easy to expand



energy store and trade



manage energy sources and tariffs



increase self-sufficiency

### HIGH EFFICIENT POWER SUPPLY

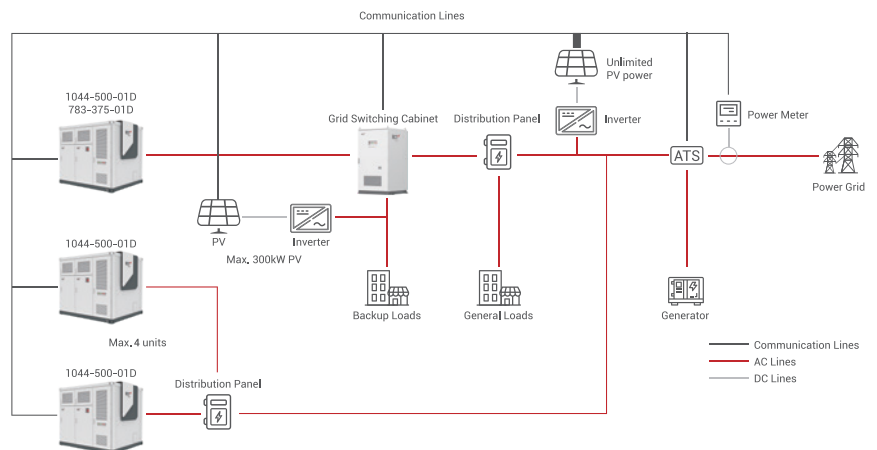
- 1044 kWh Outdoor-rated cabinet storage system
- Modular, High-efficiency PCS
- Smart Energy Cloud Platform
- Flexible Battery Rack Configuration, 4 Battery Racks or 3 Battery Racks

### SAFETY TECHNOLOGY

- Five-Tier Protection System: Cell-level Protection, Pack-level Shutdown, Rack-level Disconnect, PCS Isolation, Container-level Electrical Disconnect
- Lithium iron phosphate (LFP) chemistry provides highest level of safety, thermal stability and reliability
- A three-stage fire system ensures safety. continuous cell-level monitoring for early detection, automatic aerosol suppression at the source, and integrated water sprinklers for full compartment protection
- Integrated multi-level battery management system(BMS) assures optimized and well-balanced power storage

### APPLICATION SCENARIOS

- Self-consumption
- T.O.U (Time of Use)
- Peak Shaving
- Third-party Power Dispatching



# RCTerra Pro 2.0

1044-500-01D

783-375-01D

## GENERAL

|                                  |                                     |                  |
|----------------------------------|-------------------------------------|------------------|
| Nominal Energy                   | 1044 kWh                            | 783 kWh          |
| Usable Energy (95% DOD)          | 991.80 kWh                          | 743.85 kWh       |
| Maximum Charge/Discharge Rate    | 0.5 P                               |                  |
| Relative Operating Humidity      | 0%-95% RH, Non-condensing           |                  |
| Operating Temperature Range      | -30°C-50°C(>45°C derating)          |                  |
| Storage Temperature Range        | -35°C-55°C(Recommended 0°C to 30°C) |                  |
| Operating Altitude               | ≤3000 m (>2000 m derating)          |                  |
| Dimension [mm]*                  | W2991 × D2438 × H2591               |                  |
| Corrosion-proof Grade of Cabinet | C4 (C5 Optional)                    |                  |
| Weight                           | Approximately 10.9T                 | Approximately 9T |
| IP Rating                        | IP54                                |                  |
| Noise Level                      | ≤70 dB                              |                  |
| Communication Protocol           | Modbus TCP                          |                  |
| Off-grid Operation               | Yes                                 |                  |
| BMS                              | Integrated                          |                  |
| EMS                              | Integrated                          |                  |

## DC SIDE

|                                 |                               |     |
|---------------------------------|-------------------------------|-----|
| Battery Pack Quantity           | 5×4                           | 5×3 |
| Battery Pack Structure          | 1P52S                         |     |
| Battery Energy per Pack         | 52.25 kWh                     |     |
| Battery Type                    | LiFePO <sub>4</sub>           |     |
| DC-side Rated Voltage           | 832 Vdc                       |     |
| DC-side Operating Voltage Range | 689-930.8 Vdc                 |     |
| Cooling Method of Pack          | Liquid-cooling                |     |
| Cycle Lifetime of Battery Cell  | ≥8000 cycles (70%SOH, 25±2°C) |     |

## AC SIDE

|                               |                   |        |
|-------------------------------|-------------------|--------|
| Rated AC Power                | 500 kW            | 375 kW |
| Rated AC Current              | 721 A             | 541 A  |
| Rated AC Voltage              | 400 Vac (3P+N+PE) |        |
| AC Line Frequency             | 50 / 60 Hz        |        |
| Long-term Overload Capacity   | 110%              |        |
| Power Factor Adjustable Range | -1-+1             |        |

## SAFETY FEATURES

Flammable/explosive Gas Detection, Flammable/explosive Gas Exhaust, Smoke Detection, Temperature Detection, Aerosol Fire Suppression, Siren and Strobe Alarm, Water Fire Suppression, Emergency Stop Button

## STANDARDS

IEC 62619, IEC 63056 (62477-1 & 62619 Cover), IEC 60730-1 Annex H, EN 62477-1, EN 62040-1, EN 61000-6-2/-4 (EMC), EN 62933-5-2, VDE-AR-E 2510-50, UN 38.3, UL9540A (For battery pack)

### \*Note:

1. The foundation dimension of the cabinet is **2991mm×2438mm**. If we consider the decorative trim , the maximum dimension is **W3061mm×D2438mm×H2672mm**.
2. Please contact out sales if you want to know of other relevant certifications.
3. The decorative trim of this product is an optional configuration, the standard product do not have it.



# RCTerra Max 1.0

## CESS4000



Flexible and Scalable  
for Any Application



Environmental Friendly  
Operation



Advanced Thermal Design



Intelligent Energy Management  
System (EMS)

## RELIABLE POWER SUPPLY

- A robust, outdoor 4,073 kWh containerized Energy Storage System
- Preassembled Liquid Cooling Battery Packs
- Offers flexible grid integration

## VERSATILE CONFIGURATIONS

- Multiple parallel units meet diverse needs
- High energy density maximizes storage capacity while minimizing the system's footprint
- Ensures high-efficiency operation by minimizing auxiliary power consumption

## REDUCED ENVIRONMENTAL IMPACT

- Effectively smooths the output from renewable energy sources
- Simplifies the integration of renewable energy and helps reduce CO<sub>2</sub> emissions from conventional power generation
- Features an advanced, low-noise fan system for quiet operation

## PROVEN SAFETY

- The fan system is compliant with the NFPA 69 standard
- The product complies with UL9540 and UL9540A certification standards and has undergone large-scale fire testing
- Includes an emergency gas detection port to ensure operator safety

## ADVANCED THERMAL DESIGN

- A smart, dual-mode cooling system (liquid and air conditioning) maintains stable, 24/7 operation for both the battery compartment and the electrical room

## INTELLIGENT EMS

- Self-developed RPEMS cloud platform for autonomous container operation
- An ALL-IN-ONE solution for seamless energy management

## RCTerra Max 1.0

## CESS4000

### GENERAL

|                                  |                                     |                 |
|----------------------------------|-------------------------------------|-----------------|
| Nominal Energy                   | 4073 kWh                            |                 |
| Maximum Charge/Discharge Rate    | 0.25C, 0.5C                         |                 |
| Operating Temperature Range      | -30°C-50°C/-22°F-122°C              |                 |
| Dimension [mm]                   | W6058×H2896×D2438                   |                 |
| Footprint                        | 20' High-cube ISO container         |                 |
| Weight                           | About 38 T                          |                 |
| Corrosion-proof Grade of Cabinet | C4 (C5 Optional)                    |                 |
| IP Rating                        | IP55                                |                 |
| Noise Level                      | 84 dBA (50Hz) 86 dBA (60Hz)         |                 |
| BMS                              | Integrated                          | 480V 60Hz, 3P4W |
| EMS                              | Integrated                          |                 |
| Auxiliary Load Voltage           | 480V 60Hz or 380-415V 50-60Hz, 3P4W |                 |
| Cycle Lifetime of Battery Cell   | ≥8000 cycles (70%SOH, 25±2°C)       |                 |

### DC SIDE

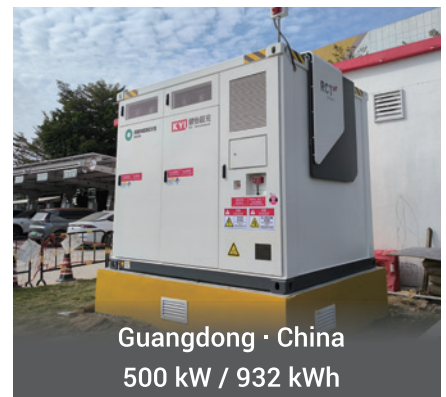
|                                |                     |
|--------------------------------|---------------------|
| Battery Rack Quantity          | 10                  |
| Battery Pack Quantity per Rack | 8                   |
| Battery Pack Structure         | 1P52S               |
| Battery Cell Capacity          | 306 Ah              |
| Battery Capacity per Pack      | 50.918 kWh          |
| Battery Type                   | LiFePO <sub>4</sub> |
| Nominal Voltage (DC)           | 1331.2 Vdc          |
| Optional Voltage Range (DC)    | 1164-1500 Vdc       |
| Cooling Type                   | Liquid-cooling      |

### STANDARDS

EN 62477-1, IEC 62040-1, EN 61000-6-2/-4, EN 55011, CISPR 11, IEC 62933-5-2, IEC 62933-5-1/-2-1, IEC 61439-1/-2, UL 9540, UL 9540A, NFPA 69, UN 38.3

**\*Note:**

Please contact our sales if you want to know of other relevant certifications



## Partnership & Global Support

RCT Power is committed to delivering sustainable, high-quality, and bankable energy storage solutions. Leveraging 10+ years of energy storage expertise to bring 2019-proven utility-scale stability directly to C&I, far surpassing residential-based newcomers.

Our dedicated global support team is ready to assist you from project design and commissioning through to long-term operation.

With offices across four continents and 24/7 technical support, we partner with you to achieve energy independence and maximize ROI.



[www.rct-power.com](http://www.rct-power.com)