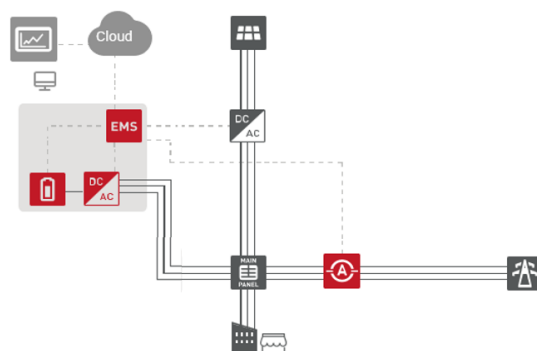




RCTerra Pro 2.0 1044-500-01D COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



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

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×H2591×D2438	
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 ₄	
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	375kW
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×H2672mm×D2438mm**.
- 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.