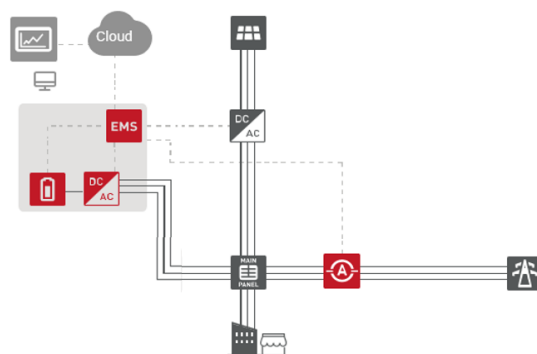




RCTerra Class 2.0 261-125-01D

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



HIGH EFFICIENT POWER SUPPLY

- 261 kWh Outdoor-rated cabinet storage system
- Modular, High-efficiency PCS
- Smart Energy Cloud Platform
- Multi-unit parallel support for the flexible capacity

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	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×H2328×D1385
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 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	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 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 **1130mm×1385mm**. If we consider the decorative trim and the door lock, the maximum dimension is **W1184mm ×H2328mm ×D1421mm**.
- 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.