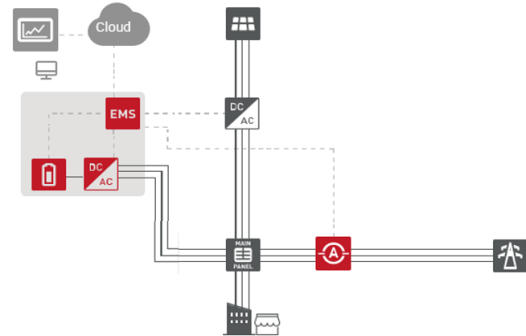




RCTerra Class 2.0 CESS 261-125-02D

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
Storage Temperature Range	-35°C ~ 55°C (Recommended 0°C to 30°C)
Operating Altitude	≤3000 m
Dimension (mm)*	W1230×H2337×D1425
Corrosion-proof Grade of Cabinet	C4 (C5 Optional)
Weight	Approximately 2900 kg
Enclosure	NEMA Type 3R
Noise Level*	≤64 dB
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	741-930.8 Vdc
Cooling Method Of Pack	Liquid-cooling
Cycle Lifetime Of Battery Cell	≥8000 cls (70% SOH, 25±2°C)

AC Side

Rated AC Power	125 kW
Rated AC Current	150 A
Rated AC Voltage	480 Vac (3P+N+PE)
AC Line Frequency	60 Hz
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, Explosion Relief Panel

Standards

UL 1973, UL 9540A, UL 60730-1, UL 9540, NFPA 69, NFPA 68, UN 38.3

***Note:**

- 1.The foundation dimension of the cabinet is **1230mm×1425mm**. If we consider the decorative trim and the door lock, the maximum dimension is **W1284mm ×H2336mm ×D1425mm**.
- 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.
- 4.Average noise level after stable operation.