

CL-006 ESS 261Kwh Commercial & Industrial

The 261kWh outdoor energy storage cabinet, model CL-006-ESS-261Kwh, is designed to meet industrial and commercial energy storage needs.

The cabinet features multiple electrical safety designs, including an emergency shutdown (E-STOP), insulation detection, water ingress protection, lightning protection, and other safety functions. The fire protection system supports active explosion prevention and aerosol fire extinguishing to ensure product safety. It integrates local EMS functions, supports various energy management strategies, and meets the application scenarios of photovoltaic consumption, peak-valley arbitrage, demand control, and electricity market trading, promoting the development of commercial and industrial energy storage.



Product Features

Modular design for flexible expansion and convenient maintenance

High energy density with a compact footprint for easy installation and transportation

Upper and lower compartment design for safety isolation; front maintenance to save space

Cell-level thermal isolation to prevent thermal runaway between adjacent cells

Front wiring support, eliminating the need for cable trenches and reducing construction costs

Local HMI and cloud platform management for convenient remote maintenance



Data Center



Commercial Buildings



Industrial Parks



PV, Storage &
Charging Integration



Distribution Grid
Expansion

Technical Data

Battery Parameters

Nominal energy(kWh)	261.24
Nominal voltage(V)	832
Cell type	3.2V/314Ah, LFP
Cell grouping	1p52S
Battery pack grouping	(1p52s) × 5S

On-grid Output Parameters

Rated grid voltage (V)	400
Grid frequency (Hz)	50/60
Rated output power (kW)	125
Maximum output power (kW)	137.5
Rated output current (A)	180
Total harmonic distortion of current (%)	≤3
DC component (%)	< 0.5
Power factor	-0.99 To +0.99

Off-grid Output Parameters

Off-grid output voltage (V)	400
Off-grid output frequency (Hz)	50/60
Off-grid apparent power (kVA)	125
Maximum apparent power (kVA)	137.5
Voltage total harmonic distortion (%)	≤3 (Linear Load)
Unbalanced load capability (%)	100
Number of off-grid parallel units	6

Basic Parameters

System efficiency	≥87% (@0.5p, 25°C, BOL,)
Thermal management	PCS: Forced Air Cooling; Battery: Liquid Cooling
Fire protection	Cabinet-level Aerosol + Temperature Sensor + Smoke Detector + Combustible Gas Detector + Intake And Exhaust Fans + Dry Pipe
Communication protocol	Modbus Rtu, Modbus Tcp, Mqtt, Iec104
Human-machine interaction	Indicator Lights + Cloud Platform
Connection method	Three-phase Four-wire
Isolation type	Non-isolated
Operating temperature (°C)	-30 To +50 (Derating Above 45°C)
Operating humidity	0 To 95% Rh
Storage temperature (°C)	-30 To 60
Operating altitude	4000m (Derating Above 2000m)
Protection rating	Ip55 (Battery Compartment), Ip54 (Electrical Compartment)
Corrosion resistance rating	C4-M (Cabinet Meets C4-M; Liquid Cooling Unit And Pcs Standard C3-M, Optional C4-M)
Dimensions (width × depth × height) mm	976*1532*2428 (Excluding Lifting Rings)
Weight (t)	Approximately 2.6
Noise	<75db(A) @1m
Reference standards	IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/-4, IEC60730, UN38.3, EU1542 (design meets), wireless RED, UL9540A, RoHS, REACH PCS grid connection certification: European standard EN50549-1&-2&-10; Germany VDE4110, VDE4120; Spain NTS631:2019, UNE217002:2020, UNE217001:2020; UK G99; Italy CEI 021/16

Disclaimer: The content of the Manual is for reference only. In case of any change, please refer to the actual product.



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