

All-in-one Liquid-cooled ESS Cabinet

EL-261

The All-in-One 261kWh Energy Storage Cabinet is a fully integrated solution engineered for reliability and rapid deployment. It combines durable 314Ah cells with precision liquid cooling ($\leq 3^{\circ}\text{C}$), intelligent BMS/EMS, built-in fire safety, and a matched PCS in a single, pre-tested enclosure. This future-proof asset is quick to install, simple to operate, and delivers worry-free performance from day one.



Features



Long Cycle Life & Durability

314Ah battery cells with over 8,000 cycles, ensuring long-term operational economy and reduced lifecycle cost for energy storage projects.



Flexible & Scalable Design

The system's modular architecture ensures both flexible configuration and scalable growth. It supports rapid deployment scenarios and can be easily expanded in parallel to meet future capacity demands.



Highly Integrated & Easy Connection

All-in-one, pre-assembled design integrates all key components. Low-voltage (400Vac) direct grid connection simplifies installation and eliminates high-voltage compliance complexity.



Safe & Reliable

Rigorously executes control commands with multi-layer protection including fireproof, explosion-resistant, and impact-resistant designs, ensuring safety across all operating environments.



Rapid Response for Grid Support

Delivers high-speed charge and discharge response, meeting critical demands for frequency regulation and grid stability in diverse application scenarios.

AC Side

Rated Output Power	125kW
Rated Voltage	400 V
AC side connection	3W+N+PE
Voltage Range	400V (-15% ~ +10%), 480V (-12%~+10%)
Rated Frequency	50/60 (±3) Hz
Total Harmonic Distortion (THDi)	≤3%
Power Factor	-1 ~ +1

DC Side

Battery Type	LFP , 3.2 V / 314 Ah
Battery PACK Configuration	1P52S/52.2kWh
Battery Capacity	261 kWh
Rated Battery Voltage / Voltage Range	DC 728V ~ DC 949V
Charge/Discharge rate	≤0.5P
Life cycle	≥8000 times@25±3℃ , ≥70%EOL

General

Dimensions (L*W*H)	1000mm × 1420mm × 2250mm
Weight	Around 2720kg
Operating Temperature Range	-25° C ~ +55° C
Relative Humidity	0~95%RH(non-condensing)
Altitude	≤ 2000 m
Cooling	Liquid Cooling
Noise	≤73dB @1m
Ingress Protection	IP55
Fire suppression system	Active early warning + smoke and temperature sensor + combustible gas detection + cabinet level fire suppression + external water fire suppression + explosion-proof exhaust + blow-off valve
Communication	RS485 / CAN / LAN
Standard	UN38.3、IEC62619、IEC 61000、IEC62477、RoHS2.0 REACH SVHC(254) EN50549-1、EN50549-10

MPPT Module Optional

Number of MPPT Channels	4 channels
Max. PV Side Voltage (V)	1100
MPPT Operating Voltage Range (V)	150 - 1000
Max. Short-circuit Current per MPPT Channel (A)	88
Minimum Voltage at Rated Power (V)	350
Rated Power (kW)	62.5kW
Overload Capacity	1.1 × continuous / 1.2 × for 1 minute (Ambient temperature ≤40℃)
Max. PV Side Current (A)	50A × 4 branches
Bus (Battery) Side Operating Voltage Range (V)	450 - 1000
Peak Efficiency	≥99%
Dimension	480 × 550 × 133 (W × D × H)
Weight	≤35kg
Noise Level	≤70dB
Ingress Protection Rating	IP20
Cooling Method	Forced Air Cooling