

HLY-ELS 241K/261K

Industrial & Commercial Cabinet ESS



Integrated Design

Highly integrated cabinet with both AC and DC; supports multi-unit parallel connection, scalable to megawatt level.



Core Safety

Cell partition isolation + intelligent fire protection; three-level intelligent protection at cell, module, and system level.



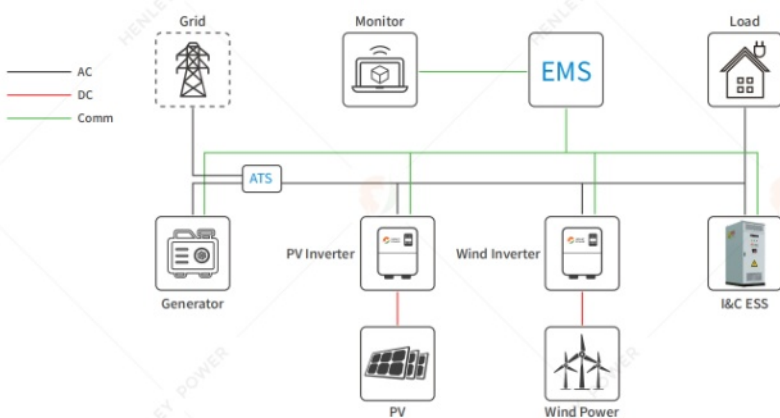
Grid-Friendly

Voltage and frequency regulation, three-phase balancing, feeder management; improves power quality, delays grid expansion, fast response, supports primary and secondary frequency regulation.



Economic & Efficient

High-efficiency charge/discharge for better returns; intelligent O&M with real-time monitoring; long cycle life with lower cost.



System Specification

Model	HLY-ELS24001Y241K		HLY-ELS26001Y261K	Remarks
DC Parameters				
Cell Type	LFP-3.2V-314Ah			
Rated Battery Energy	241kWh		261kWh	
Nominal Voltage	768Vdc(Voltage Range 648V~876V)		832Vdc(Voltage Range 702V~949V)	
Temperature Control Method	Smart liquid cooling/heating			50% ethylene glycol, water
AC Parameters (On-Grid)				
Rated Power	125 kW			
Grid voltage	400 V			
Rated Current	180 A			
AC Overload Capacity	1.1 times for extended periods, 1.2 times for 1 minute			
Rated Grid Frequency	50 Hz/60 Hz			
Cooling method	Air-cooled			
Total Current Harmonic Distortion (THDI)	<3% (at rated power)			
Power factor	>0.99 (at rated power)			
Power factor adjustment range	-1 (leading) to 1 (lagging)			
System Parameters				
Fire Protection System	Aerosol			
Anti-corrosion level	C3			C4 and C5 optional
Ingress Protection	IP55			
Operating Temperature Range	-20 to +55°C			
Storage Temperature	-20 to +45°C			SOC 30%~50%, <6 months
Operating Humidity Range	0~95% RH			No condensation
Installation method	Outdoor installation			
System Communication Interface	Ethernet/RS485			
External System Communication Protocols	Modbus TCP/Modbus RTU/MQTT			
Altitude	Up to 2000 m			
Dimensions	1000 mm (W) × 1390 mm (D) × 2390 mm (H)			>2000 m (derated)
Weight	2500±150kg	2600±150kg		
Cycle life	≥8,000 cycles @0.5C, 25±2°C, ≥70% EOL			
Certifications	GB/T 36276, IEC 62619, IEC 63056, IEC62477, IEC 61000, ROHS, UN38.3, MSDS			

