

HLY-ELS41601Y 418K

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.



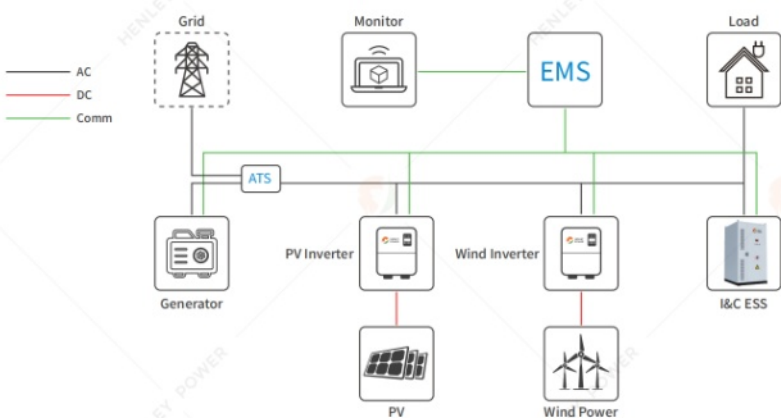
Grid-Friendly

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-ELS41601Y 418K	Remarks
DC Parameters		
Cell Type	LFP-3.2V-314Ah	
Rated Battery Energy	418kWh	
Nominal Voltage	1331.2Vdc	Voltage range: 1123.2~1518.4
Temperature Control Method	Smart liquid cooling/heating	50% ethylene glycol, water
AC Parameters (On-Grid)		
Rated Power	215kW	
Grid voltage	690V	
Rated Current	180A	
AC Overload Capacity	1.1 times for extended periods, 1.2 times for 1 minute	
Rated Grid Frequency	50Hz/60Hz	
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	IP66	
Operating Temperature Range	-20~+55°C	
Storage Temperature	-20~+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	2000m以内	>2000 m (derated)
Dimensions	1556mm(W)×1404mm(D)×2592mm(H)	
Weight	4500±150kg	
Cycle life	≥8000 cycles @0.5C, 25±2°C, ≥70%EOL	

