

# HLY-ELS 215K/232K

## 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.



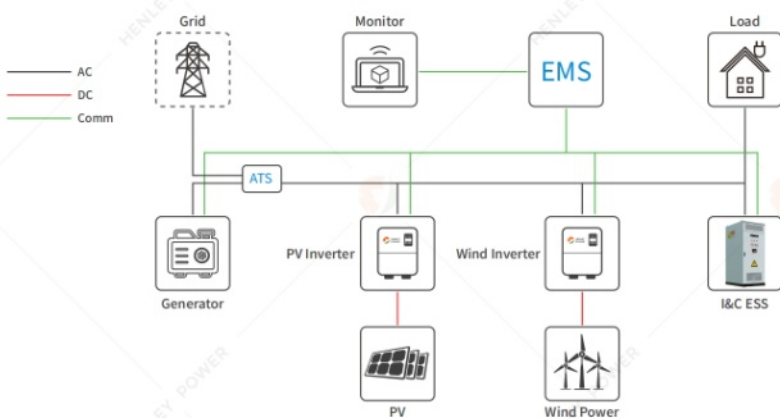
### Grid-Friendly

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-ELS24001Y215K                                      |                                          | HLY-ELS26001Y232K               |  | Remarks                    |
|------------------------------------------|--------------------------------------------------------|------------------------------------------|---------------------------------|--|----------------------------|
| DC Parameters                            |                                                        |                                          |                                 |  |                            |
| Cell Type                                | LFP-3.2V-280Ah                                         |                                          |                                 |  |                            |
| Rated Battery Energy                     | 215kWh                                                 |                                          | 232kWh                          |  |                            |
| 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                              | 100kW                                                  |                                          | 125kW                           |  |                            |
| Grid voltage                             | 400 V                                                  |                                          |                                 |  |                            |
| Rated Current                            | 144A                                                   |                                          | 180A                            |  |                            |
| 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) | <2.5%(at rated power)                                  |                                          | <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                                                     |                                          |                                 |  |                            |
| Ingress Protection                       | IP55                                                   |                                          |                                 |  |                            |
| Operating Temperature Range              | -20 to +55°C                                           |                                          |                                 |  |                            |
| Storage Temperature                      | -20 to +45°C                                           |                                          |                                 |  |                            |
| Operating Humidity Range                 | 0~95% RH                                               |                                          |                                 |  |                            |
| 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) × 1350 mm (D) × 2390 mm (H)                |                                          |                                 |  |                            |
| Weight                                   | 2500±150kg                                             |                                          | 2600±150kg                      |  | >2000 m (derated)          |
| Cycle life                               | ≥8,000 cycles @0.5C, 25±2°C, ≥70% EOL                  |                                          |                                 |  |                            |
| Certifications                           | None                                                   | IEC 62619, IEC 61000, ROHS, UN38.3, MSDS |                                 |  |                            |

