

# V-ESS-261LP-2A

V-ESS-261LP-2A series all-in-one liquid-cooled ESS solution features advanced cooling with <3°C cell temperature difference, ensuring longer battery life and stable performance. Its modular, high-density design enables flexible expansion, delivering higher energy efficiency, safety, and simplified installation for ESS projects.



## **Features**

#### • | Compact

1.4m² footprint only, easy transportation & fast installation.

### • | High Integration

261kWh energy in one cabinet with remarkable endurance.

#### Efficient Cooling

Optimal in-PACK duct design, achieve high-efficiency cooling and low energy consumption.

### Long Cycle Life

Over 8,000 times cycle life, excellent performance of battery system.

### • | Flexible Expansion

Modular design, simplified parallel expansion.

#### Ultimate Safety

In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.

| DC Side                    | V-ESS-261LP-2A  |  |  |
|----------------------------|---|--|--|
| Cell type                  | LFP/314Ah   |  |  |
| Pack configuration         | 52.2kWh/1P52S   |  |  |
| System configuration       | 261kWh/1P260S   |  |  |
| Rated DC voltage           | 832V  |  |  |
| DC voltage range           | 728 ~ 936 V   |  |  |
| Max. charge/discharge rate | 0.5 P   |  |  |
| Max. depth of discharge    | 100% (25 ± 2°C)   |  |  |
| AC Side                    |   |  |  |
| Rated output power         | 125kW   |  |  |
| Max. apparent power        | 138kVA  |  |  |
| Rated AC voltage           | 230/400V  |  |  |
| AC voltage range           | ±15%  |  |  |
| Grid type                  | 3W+PE/3W+N+PE   |  |  |
| Rated frequency            | 50 Hz/60 Hz   |  |  |
| Power factor               | 0.99/ -1 ~ +1   |  |  |
| THDi                       | ≤3%   |  |  |
| DC ratio                   | <0.5% lpn   |  |  |
| General                    |   |  |  |
| Max. round trip efficiency | 89%   |  |  |
| Cycle life                 | ≥ 8,000 cycles  |  |  |
| Communication              | Modbus TCP/RTU  |  |  |
| Fire suppression system    | Aerosol   |  |  |
| Ingress rating             | IP55  |  |  |
| Cooling                    | Active liquid cooling   |  |  |
| Operating temperature      | -25°C~55°C (Derating after 45°C)  |  |  |
| Anticorrosion rating       | C4 (C5 optional)  |  |  |
| Humidity                   | 5~95% RH (non-condensing)   |  |  |
| Noise                      | ≤ 75 dB   |  |  |
| Altitude                   | 4000m (Derating above 2000m)  |  |  |
| Dimensions (W*D*H)         | 1,050×1,350×2,400 mm  |  |  |
| Weight                     | 2,600 kg  |  |  |
| Certification              | UN 38.3, IEC 62477-1, IEC 61000, IEC 62619, IEC 63056, UL 9540A, EN 50549 |  |  |

# V-ESS-120/144WP

V-ESS-120/144WP series all-in-one PV+ESS solution integrates lithium battery ESS, hybrid inverter, HVAC, FSS, BCQ, and related systems. It features a compact structure, easy installation, scalable capacity, and supports multiple operating modes such as self-use, peak shaving, and backup power.



## **Features**

- Economical & Efficient

  RTE over 90%, DOD up to 100%.
- Safe & Reliable
   IP55, optimized ventilation design, temperature difference within 6°C.
- Compact & Convenient
  0.96m footprint,
  easy to transport and install.
- Easy modular design supports parallel connection for convenient system expansion.

- Versatile
   Support multiple brands of hybrid inverter, with higher selectivity.
- PV Pluggable
   Support PV connection, with higher integration.
- Self-Developed

  LFP280Ah battery cell system integration, leading cost advantage, 3S fusion.
- Easy O&M
   Support multiple ways of operation and maintenance, including onsite, cloud.

| Battery Cabinet            | V-ESS-120V  | VP V-      | V-ESS-144WP       |  |
|----------------------------|---|------------|-------------------|--|
| Cell type                  | LFP/314Ah   |            | LFP/314Ah         |  |
| Pack configuration         | 24.11kWh/1P24S 24.115kWh/1P24S                      |            | 115kWh/1P24S      |  |
| System configuration       | 120kWh/1P120S                                       |            | 144.691kWh/1P144S |  |
| Rated DC voltage           | 384V 460.8V   |            | 460.8V            |  |
| DC voltage range           | 336~432V 403.2 ~ 518.4V                             |            |                   |  |
| Max. charge/discharge rate | 0.5 P   |            |                   |  |
| Max. depth of discharge    | 100% (25 ± 2°C)                                     |            |                   |  |
| AC Side                    |   |            |                   |  |
| Max. input power           | 60kW  | 80kW       | 100kW             |  |
| PV voltage range           | 150 ~ 850V  | 150 ~ 850V | 150 ~ 850V        |  |
| MPPT                       | 3   | 4          | 4                 |  |
| Max. input current         | 40A*3   | 40A*4      | 40A*4             |  |
| AC Side                    |   |            |                   |  |
| Rated output power         | 30kW  | 40kW       | 50kW              |  |
| Max. output power          | 33kVA   | 44kVA      | 55kVA             |  |
| Rated AC voltage           | 400V  |            |                   |  |
| AC voltage range           | ±15%  |            |                   |  |
| Grid type                  | 3W+N+PE   |            |                   |  |
| Rated frequency            | 50Hz/60Hz   |            |                   |  |
| Power factor               | 0.99/ -0.8 ~ +0.8                                   |            |                   |  |
| THDi                       | ≤3%   |            |                   |  |
| DC ratio                   | <0.5% lpn   |            |                   |  |
| General                    |   |            |                   |  |
| Max. round trip efficiency | 90%   |            |                   |  |
| Cycle life                 | ≥ 8,000 cycles                                      |            |                   |  |
| Communication              | Modbus TCP/IP                                       |            |                   |  |
| Fire suppression system    | Aerosol   |            |                   |  |
| Ingress rating             | IP55  |            |                   |  |
| Cooling                    | Forced air cooling                                  |            |                   |  |
| Operating temperature      | -25°C~55°C (Derating after 45°C)                    |            |                   |  |
| Anticorrosion rating       | C4 (C5 optional)                                    |            |                   |  |
| Humidity                   | 0~95% RH (non-condensing)                           |            |                   |  |
| Altitude                   | 4000m (Derating above 2000m)                        |            |                   |  |
| Dimensions (W*D*H)         | 800×1,200×2,000 mm                                  |            |                   |  |
| Weight                     | 1,200 kg  |            |                   |  |
| Certification              | UN 38.3, IEC 62477, IEC 61000, IEC 62619, IEC 63056 |            |                   |  |

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