

## 372kWh Liquid-Cooling Battery

GSL-BESS-372K



### Independent temperature control

The adoption of centralized refrigeration, multistage pipelines, and co-current flow in parallel flow design facilitates a temperature difference of 3 °C for the container.

### Flexible deployment

Each outdoor unit integrates a Water Cooling System, a Fire Protection System, a DC Control System independently in a installation completion design for an easy transportation of the complete equipment.

### Three-level control architecture

The three-level BMS architecture of General Control, Master Control, and Slave Control is compatible with local EMS functions and various mainstream communication protocols.

### System safety

With a DC 5000V withstand voltage without flash-over, multi-layer disconnection protection mechanism IP68 level ingress protection for the Boxed Battery System, 1000 hour high-temperature reliability test for the pipeline, a high-level system safety is secured.

### Capacity upgrade

As 306 Ah cells were initially adopted in this Power Supply System, 320 Ah cells are recommended for capacity expansion.

### Long-term service

Special cells with a standard cycle of 10000 times dedicated for energy storage adopted in the System secures a continuous operation for 10 years.

### Multiple fire prevention

The "3+2" fire prevention and control measures include fire protection at module level + fire protection at the container level, fire protection with gas + fire protection with water, combustible gas detection, combustible gas venting, and explosion relief.

Datasheet

Battery Energy Storage

GSL-BESS-372K

|                              |                              |
|------------------------------|------------------------------|
| Single Cell Type             | LFP 3.2V/280AH               |
| Module Combination           | 1P52S                        |
| System Combination           | 8 modules in series          |
| Capacity (kWh)               | 372.7                        |
| Nominal Voltage (Vdc)        | 1331.2V                      |
| Voltage Range (Vdc)          | 1164.8~1497.6V               |
| Charge Current               | 140A/0.5C                    |
| Discharge Current            | 140A/0.5C                    |
| Discharge Depth              | 90% DoD                      |
| Service Life                 | >8500 cycles@80%DoD          |
| Thermal Management Mode      | Liquid cooling technology    |
| Thermal runaway management-1 | Aerosol Extinguishing or PFH |
| Thermal runaway management-2 | Water Immersion              |

General Parameters

|                         |   |
|-------------------------|---|
| Dimensions (W*D*H) (mm) | 1300*1300*2340  |
| Total Weight (kg)       | 3500  |
| Operation Altitude      | 3000m(>3000m derating)  |
| Noise Level @1m         | <75 dB(A)   |
| IP Rating               | IP55  |
| Operating Temperature   | -20°C to 55°C   |
| Operating Humidity (RH) | 0 to 95%  |
| Storage Conditions      | -20°C to 30°C, Up to 95% RH, non-condensing<br>State of Energy (SoE): 50% initial |

System Characteristic

|                          |   |
|--------------------------|---|
| Communication Interface  | CAN, RS485, Wi-Fi                               |
| Warranty                 | 10Years   |
| Certifications*(pending) | UL1973/UL9540A/IEC62477-1/IEC61000-6/2/4/UN3536 |