

# DG1000-1672kWh-2H0

## Smart GFM Energy Storage System



### Stable Grid-Forming

- 4S full-stack self-development (BMS/EMS/PCS/PMS) + VSG grid-forming technology
- Seamless grid-tie/islanding transition, millisecond-scale coordination of PV, storage, diesel & loads
- Proprietary pv-storage constant power output, delivering predictable & controllable grid stability



### Ultra-Simplified Delivery

- 8-in-1\* integrated design, 35% ↓ smaller footprint
- Standard 10ft container, all-in-one pv-storage-diesel-grid integration
- Factory pre-commissioned, one-click station startup, plug-and-play operation
- 70% faster on-site delivery, full commissioning in as little as 4 hours



### Reliable Safety

- Cell-level AI early warning, proactive thermal runaway prevention
- Active ventilation system, eliminating combustible gas accumulation
- Pack-level aerogel thermal barrier + aerosol rapid fire suppression



### Smart O&M

- Software-defined energy system, flexible scenario adaptation
- AI-optimized charging/discharging strategies, extending battery lifespan
- AI accurate forecasting integrating PV generation, load profile & tariff models
- Multi-time-scale\*\*anomaly detection & fault diagnosis

\*Equivalent to 6×261kWh ESS + 1 grid-tie/islanding cabinet + 1 distribution cabinet

\*\*Real-time monitoring, mid/long-term trend analysis & scheduled inspection

This datasheet is intended solely as a reference for product selection. Product specifications, parameters and functions may change due to version upgrades. The final technical specifications shall be based on the contract.

| Energy Storage System Parameters     |                                                                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model type                           | DG1000-1672kWh-2H0                                                                                                                                                |
| Rated capacity                       | 1672kWh                                                                                                                                                           |
| Depth of charge and discharge        | 2% ~ 98%(On-grid), 5% ~ 95%(Off-grid)                                                                                                                             |
| Dimensions (L x W x H)               | 2,991 mm×2,438 mm×2,896 mm                                                                                                                                        |
| Weight                               | ≤20T                                                                                                                                                              |
| Operating temperature range          | -30°C ~ 55°C                                                                                                                                                      |
| Storage temperature range            | -35°C ~ 60°C                                                                                                                                                      |
| Operating humidity range             | 5% ~ 95%(Non-condensing)                                                                                                                                          |
| Maximum operating altitude           | ≤5,000 m(Derating above 3,000 m)                                                                                                                                  |
| System temperature control mode      | Liquid cooling Pack & PCS                                                                                                                                         |
| SOC calibration mode                 | Automatic                                                                                                                                                         |
| Fire suppression mode                | Battery pack positive pressure oxygen barrier, directional gas exhaust, active exhaust, Aerosol, Pack-Level Fire Suppression                                      |
| Communication port                   | Ethernet, 4G                                                                                                                                                      |
| Communication protocol               | Modbus TCP, MQTT                                                                                                                                                  |
| Protection class                     | IP55                                                                                                                                                              |
| Corrosion Protection Class           | C4M(C5H optional); Level I                                                                                                                                        |
| EMC protection rating                | Class A                                                                                                                                                           |
| Protection mode                      | Anti-islanding protection, insulation resistance detection , AC overcurrent protection, AC cable connection protection, and five-level electrical protection etc. |
| Standards Conformity                 | UN38.3, UN3536, IEC62477-1:2022, IEC62619:2022, IEC63056:2020, IEC61000-6-2&IEC61000-6-4, IEC60730                                                                |
| Battery Parameters (DC)              |                                                                                                                                                                   |
| Cell material                        | LFP                                                                                                                                                               |
| Rated Cell capacity                  | 314Ah                                                                                                                                                             |
| Battery pack configuration           | 1P104S*16                                                                                                                                                         |
| Battery operating voltage range      | 1040~1500V                                                                                                                                                        |
| System Parameters                    |                                                                                                                                                                   |
| System Operating Voltage             | 400Vac, 50/60Hz                                                                                                                                                   |
| Max. operating power (PCS)           | 720kW                                                                                                                                                             |
| Maximum accessible PV capacity       | 6*300kW (AC)                                                                                                                                                      |
| Recommended DG access capacity       | 450~900kW                                                                                                                                                         |
| Maximum accessible load capacity     | 900kW(On-grid), 720kW(Off-grid)                                                                                                                                   |
| Maximum accessible grid capacity     | 1800kW                                                                                                                                                            |
| Grid / off-grid switching time       | 80ms                                                                                                                                                              |
| THDi<br>(Rated Operating Condition*) | ≤2%(On-grid)                                                                                                                                                      |
| THDu<br>(Rated Operating Condition*) | ≤1.5%(Off-grid)                                                                                                                                                   |

\*450 kW at rated operating conditions