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 mmx2,896 mm
Weight	≤20T
Operating temperature range	-30℃ ~ 55℃
Storage temperature range	-35℃ ~ 60℃
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 (Rated Operating Condition*)	≤2%(On-grid)
THDu (Rated Operating Condition*)	≤1.5%(Off-grid)

*450 kW at rated operating conditions