

∞Power 1022kWh solution

Liquid-cooled battery storage system



The ∞Power 1022kWh cabinet is based on cutting-edge 1175Ah cells (4-hour), performing safety and reliability excellently while achieving ultimate cost efficiency. It is matched with a customized 250kW PCS cabinet solution.

Safety and Reliability

- Cluster-independent structure with fire insulation.
- BMS with large-capacity passive equalization.
- Compliant with NFPA855-2026 certification.

Space Saving

- Only 3.4m² land occupation for single cabinet.
- 42.3% space saving for 6-units deployment compared with container in same energy level.
- Modular design, supporting DC-side parallel expansion.

Ultimate Levelized LCOE

- Equipped with 1175Ah cells, reducing cell quantity by 70%.
- Cycle life over 8000 times at SOH ≥ 70%.
- Simplified wiring and commissioning.

High Usability

- 1000V DC system, adaptable to AC 400V and above power grids.
- Compatible with multiple PCS models, flexibly meeting grid-connection requirements in different countries.
- Built-in EMS for 24/7 system operation monitoring.



1022 kWh

Liquid-cooled energy storage system
based on prismatic LFP cells with very
high cycle life



GENERAL

Battery Type	HiTHIUM LFP 1175Ah
Module Configuration	1P34S
Battery Modules	8
Cooling Method	Liquid cooling
Configuration	Serial connection
Communication Interface	CAN/RS485/Ethernet
Application Altitude	≤ 4000 m (>2000m derating)

ELECTRICAL

Nominal Voltage (Cabinet)	870.4 V
Nominal Voltage (Module)	108.8 V
Operating Voltage Cabinet	707.2 V ... 992.8 V ¹
Nominal Energy Cabinet	1022.72 kWh ^{1,2,3}
Nominal Energy Module	127.84 kWh ^{2,3}
Nominal SOC at delivery	27% ³
Nominal Charge/Discharge Rate	0.25 P / 0.25 P

¹ 8 modules

² 0.25 P / 0.25 P

³ 25°C ± 2.0

⁴ ambient temperature

MECHANICAL

Dimensions (W x D x H)	1750 x 1950 x 2400 mm
Weight Cabinet	≤ 8100 kg ¹
Weight Battery Module	≤ 800 ± 10 kg
Protection Level	IP 55
Corrosion Rating	C3/C5 (optional)

TEMPERATURE RANGE

Operating	-30 °C ... 55 °C ⁴ (>45°C reduction)
Storing (Recommended)	-20 °C ... 35 °C ⁴

SAFETY MEASURES

Fire Alarm System	Smoke detector, heat detector, gas detector, audible and visual alarm
Fire Suppression Measures	Aerosol fire suppression system, Ventilation, Fire Hose Coupling

Convert 250 kW

It is recommended to use the 250kW-PCS cabinet customized by Hithium, which can be used in co-operation with one 1022kWh product



SYSTEM PARAMETERS	
Max. operating altitude	≤4000m (>2000m derating)
Operating temperature range	-30°C ~55°C (>45°C derating)
Storage temperature range	-30°C~60°C
Relative humidity	0~95%, non-condensing
Dimension (WxDxH)	450x1400x2400mm(Excluding lifting rings)
IP level	IP55
Corrosion Protection	C3/C5 (optional)

OFF-GRID PARAMETERS	
Rated AC Power	250kW
Rated AC Current	360A
Rated AC Voltage	400Vac
AC Connection Mode	3P4W
Grid Voltage Range	400V±15%
Grid Frequency Range	50Hz/60Hz±2.5Hz
Total Harmonic Distortion(THD) of Current	≤ 3%(Full Load)
Power Factor	0.99 / -1 ~1 (Ambient Temperature≤ 40°C)
Overload Capability	1.1 times

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Total Harmonic Distortion(THD) of Current	≤ 3%(Full Load)
Power Factor	0.99 / -1 ~1 (Ambient Temperature≤ 40°C)
DC Current Component	≤ 0.5%
Overload Capability	1.1 times
Charge and Discharge Conversion Time	< 100ms

DC PARAMETERS	
DC voltage range	600V-1000Vdc
Full-load voltage range	680V-970Vdc
Rated direct current	2*144A
Rated DC power	250kW



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