HITHIUM

∞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.

∞Power

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

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

[1] *8 modules*
[2] *0.25 P / 0.25 P*
[3] *25°C ± 2.0*
[4] *ambient temperature*

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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