HITHIUM

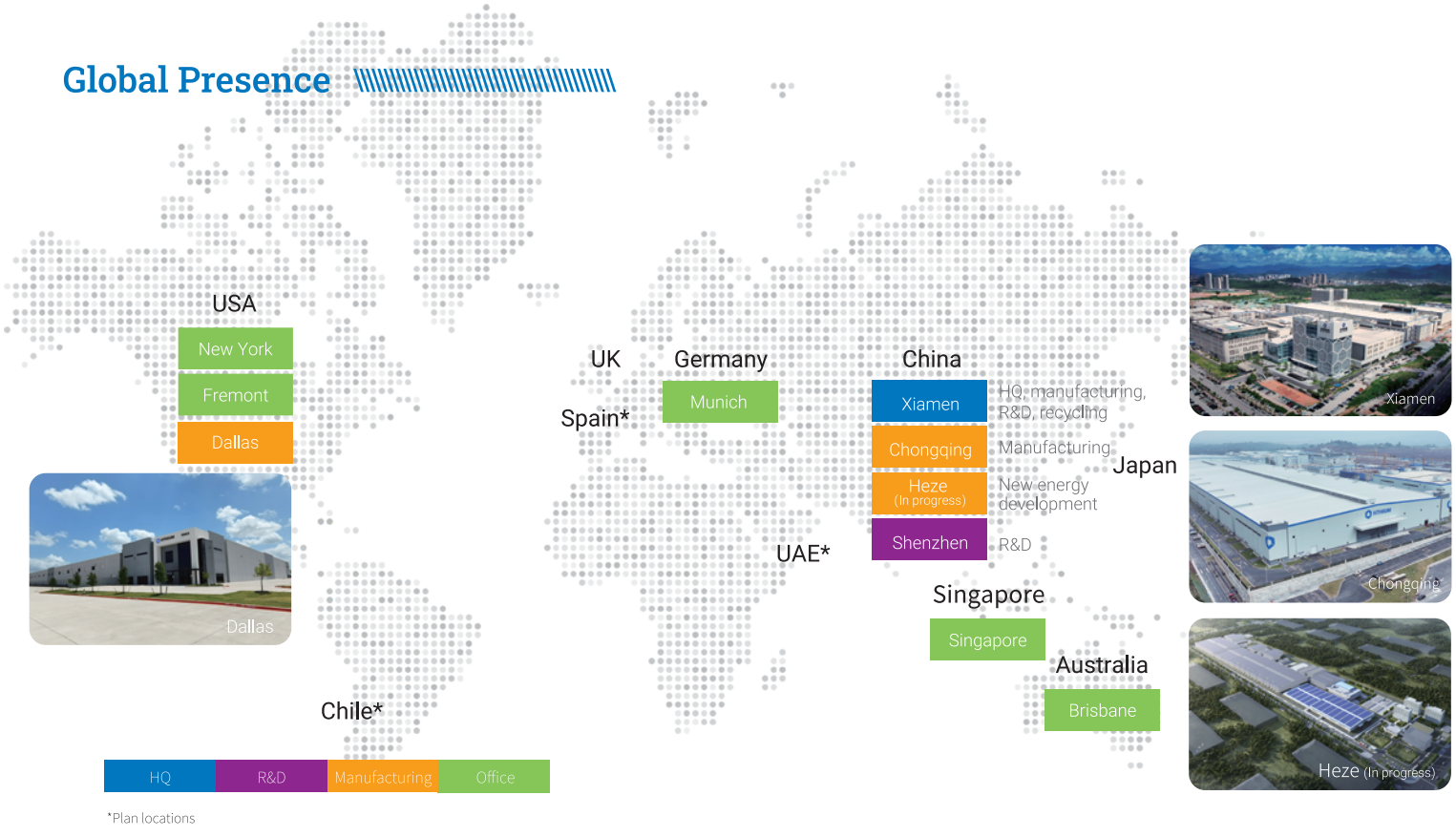
Expert in Battery Energy Storage Solution



HITHIUM

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Global Presence



*Plan locations

ESG Milestone

Compliance Development Philosophy	Responsible Supply Chain Philosophy	Community Development Philosophy	Green Operation Philosophy
Compliance Operations Steady Development	Fairness and Equity Win-win Cooperation	Giving Back to Society Collaborative Advancement	Green Technology Low-carbon Circularity

Aug 2023
UNGC
Joined United Nations Global Compact

Dec 2023
SA 8000
Social Accountability Management System Certification

Dec 2023
ISO 27001
Information Security Management System Certification

Mar 2024
ISO 50001
Energy Management System Certification

Apr 2024
ISO 14064
GHG Inventory Report for Xiamen HiTHIUM Energy Storage in 2023

Apr 2024
ISO 14067
280Ah LFP Cell Product Carbon Footprint Certification

Jun 2024
Top 10 Exemplary Environment & Top 10 Exemplary Responsibility Contribution
Green Sustainable ESG Case 2024
Top 100 Role Models

Oct 2024
ISO 56005
Innovation and Intellectual Property Management (Level 1)

Apr 2025
Grade B in CDP climate questionnaire
Passed the validation on near-term target-setting SBTi

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R&D and Manufacturing

HiTHIUM produce energy storage batteries with superior safety, high efficiency, long cycle life and minimized cost. Our game-changing innovations contribute to technologically advanced solutions that benefit business and society.

Four Research Institutes

Battery Research Institute
Leading battery chemistry development

Control Technology Research Institute
Control technology strategy implementation

Institute of Advanced Technology
Industrialization of advanced materials

Engineering Center
Focus on advanced manufacturing capabilities

Intellectual Property Portfolio

- **3900+** Global Patent Applications
- **2000+** Invention Patent Applications
- **900+** Overseas Patent Applications
- **10+** Countries
- **320+** PCT Patent Applications
- **1900+** Global Patent Grants

Till Dec. 2024

Intelligent Manufacturing

7 Modules	Data collection, quality, production, equipment, planning, storage and process
46 Processes	Data traceability from material feeding to delivery
70+	Online management of the reports on quality, production, equipment, process, etc
97	Product characteristics – CCSC
600+	Process control points
ISO 9001	Implementing ISO 9001:2015 QMS

C&I All-in-One Energy Storage System





Product	HCL 125kW-261kWh-400	HCL-DC 418kWh-0.5P
Series-parallel Mode	1P260S (314Ah Cell)	1P416S (314Ah Cell)
No. of Battery Modules	5	8
Rated charge/discharge	0.5 P / 0.5 P	0.5 P / 0.5 P
Rated DC Voltage	832 V	1331.2 V
Rated Energy	261 kWh	417.99 kWh
Dimension (L*W*H)	1000*1350*2380 (mm)	1300*1350*2380 (mm)
Weight	≤2.7t	≤3.7t
Protection Level	IP55	IP55
PCS	125 kW (Adjustable)	/
Rated AC Voltage	400 Vac, 3W+N+PE	/

HeroEE Residential Energy Solution









Product	HeroEE LIGHT (HeroEE 1 Plus)	HeroEE 2	HeroEE MaxPower
Rated Power	500 W	1000 W	5000W
Rated Capacity	1004.8 Wh	2009.6 Wh	8038.4Wh
AC Input Voltage	200-240 [VAC]	200-240 [VAC]	90-280 [VAC]
PV Input Voltage	12-50 [VDC]	12-50 [VDC]	60-450 [VDC]
Battery Cycles	11000 cls	11000 cls	11000 cls
Dimension (L*W*H)	235*142*315 (mm)	360*285*430 (mm)	500*230*758 (mm)
Weight	9.3 kg	18.3 kg	58 Kg

Product	HeroEE 16 Battery
Battery Capacity	16000 Wh
Rated Voltage	51.2 [VDC]
Charging/Discharging Voltage Range	43.2-56.8 [VDC]
Maximum charge/ discharge current	200A/200A
Battery Cycles	11000 cls
Dimension (L*W*H)	540.6*240*781.2 (mm)
Weight	110 kg

Energy Storage Battery Cell





Battery cell	Cell 1175Ah	Cell 587Ah
Operating Voltage	2.5 V - 3.65 V	2.5 V - 3.65 V
Charge & Discharge Rate	0.25 P / 0.25 P	0.5P / 0.5P
Energy Density	≥ 180 Wh/kg	≥ 185 Wh/kg
Operating Temperature	-30 °C ~ 60 °C	-30 °C ~ 60 °C
Dimension (L*W*H)	580.2*75.2*216.3 (mm)	286.0*73.5*216.3 (mm)
Cycle Life	11000 cls	11000 cls



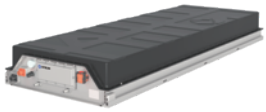


Battery cell	280Ah-1P	314Ah
Operating Voltage	2.5 V - 3.65 V	2.5 V -3.65 V
Charge & Discharge Rate	1 P / 1 P	0.5 P / 0.5 P
Energy Density	≥ 159.2 Wh/kg	≥ 173.2 Wh/kg
Operating Temperature	-30 °C ~ 60 °C	-30 °C ~ 60 °C
Dimension (L*W*H)	174.7*71.6*207.1 (mm)	174.7*71.7*207.1 (mm)
Cycle Life	7000 cls	11000 cls



Battery cell	Cell N162Ah		
Operating Voltage	1.5 V - 3.3 V	Operating Temperature	-40 °C ~ 60 °C
Charge & Discharge Rate	1 P / 1 P	Dimension (L*W*H)	174.7*71.7*207.1 (mm)
Energy Density	≥ 95.2 Wh/kg	Cycle Life	20000 cls

Energy Battery Module





Battery Module	104kWh	∞Pack 195kWh 2h | 4h
Series-parallel Mode	2P52S	1P104S | 1P52S
Charge/Discharge Rate	0.5 P / 0.5 P	0.5 P / 0.5 P | 0.25 P / 0.25 P
Rated Voltage	166.4 V	332.8 V | 166.4 V
Rated Energy	104 kWh	195 kWh
IP Degree	IP67	IP67
Dimension (W*D*H)	800*2184*243 (mm)	1248*2230*255 (mm)
Weight	667 kg	1190 kg | 1162 kg





Battery Module	2.56kWh	5.12kWh
Series-parallel Mode	1P16S	1P32S
Charge/Discharge Rate	0.5 C / 0.5 C	0.5 C / 0.5 C
Rated Voltage	51.2 V	102.4 V
Rated Energy	2.56 kWh	5.12 kWh
Dimension (L*W*H)	575*158*180 (mm)	591*308*175 (mm)
Weight	≤ 20 kg	≤ 35 kg

Liquid-Cooled Energy Storage System





Energy Storage System	5.016MWh	∞Power 6.25MWh 2h | 4h
Series-parallel Mode	6*2P416S	8P416S | 4P416S
Charge/Discharge Rate	0.5P / 0.5P	0.5P / 0.5P | 0.25P / 0.25P
Rated Voltage	1331.2 V	1331.2 V
Rated Energy	5.016 MWh	6.25 MWh
IP Degree	IP55	IP55
Dimension (L*W*H)	6058*2438*2896 (mm)	6058*2438*2896 (mm)
Weight	≤ 40 t	≤ 48 t

Global Benchmaking Projects



ESS on
Power Generation

Location:
Inner Mongolia, China

Capacity:
78MW/156MWh



ESS on
Power Generation

Location:
Razlog, Bulgaria

Capacity:
25MW/55MWh



ESS on
Power Transmission
and Distribution

Location:
Ningxia, China

Capacity:
200MW/400MWh



ESS on
Power Transmission
and Distribution

Location:
Ningxia, China

Capacity:
200MW/400MWh



ESS on
Power Transmission
and Distribution

Location:
Jiangsu, China

Capacity:
150MW/300MWh



ESS on
Power Transmission
and Distribution

Location:
Colorado, USA

Capacity:
33.7MW/235.456MWh



ESS on
Power Transmission
and Distribution

Location:
Chongqing, China

Capacity:
100MW/200MWh



ESS on
Power Transmission
and Distribution

Location:
Guangdong, China

Capacity:
70MW/140MWh



ESS on
Power Consumption

Location:
Zhejiang, China

Capacity:
10MW/20MWh



ESS on
Power Consumption

Location:
Chongqing, China

Capacity:
400kW/1720kWh

Global Leader in All-round Energy Storage Solutions

Founded in 2019, HiTHIUM is a leading global company in new energy technology, committed to delivering all-round energy storage solutions centered on advanced energy storage battery and system technologies. HiTHIUM has cultivated robust research, production, sales, and service capabilities in global markets.

As the only pure-play energy storage company to achieve GWh-scale global shipments of lithium-ion ESS batteries, HiTHIUM's customer-centric focus drives technological and innovative products and solutions for customers across more than 20 countries and regions.





