Aervoenergy

High Energy Density Lithium Polymer Battery Solutions for Professional UAV Applications.

Business operated by Shenzhen Hsun Technology Co., Ltd.

Three Core Advantages

- 400+Wh/kg High Energy Density
- High Rate Discharge Performance
- Customized UAV Battery Solutions

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AERVOENERGY

Leading Provider of Large- Capacity Semi- Solid UAV Batteries



Shenzhen Hsun Technology Co.,LTD

We specialize in the R&D, manufacturing, and sales of high-performance, high-energy-density batteries for UAVs and other applications, delivering reliable power solutions tailored to our customers' needs.

Selected Patents & Honor Certificates



Patents and Qualification Certificates



Awards & Honors



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300 million RMB ▸ Registered capital

400+ ▸ Company employees

2 GWh ▸ Production capacity

Company Profile

About AervoEnergy

AervoEnergy is a UAV battery solution business operated by Shenzhen Hsun Technology Co., Ltd., specializing in high energy density lithium polymer cells and customized power solutions.

Shenzhen Hsun Technology Co., Ltd. was established in December 2021, with its production base located in Jiangxi; the Jiangxi factory was established in March 2021. Jiangxi , known as the " Lithium Capital of Asia" . With a total investment of 300 million RMB and an annual production capacity of 2GWh , the company is dedicated to the R& D , production , and sales of high-end semi-solid soft-pack power lithium-ion batteries . The company has been successively honored with National High-Tech Enterprise , Jiangxi Province "Seed Unicorn" Enterprise , Jiangxi Province "Specialized , Refined , Distinctive and Innovative" Enterprise , Jiangxi Province " Little Lighthouse" Enterprise , Provincial Enterprise Technology Center, and Yichun City Science and Technology Innovation Effectiveness Award. It has also obtained system certifications such as Integration of Informatization and Industrialization and ISO9001 Quality Management System , as well as product certifications including GB43854 , UL1642 , BIS , and UN38.3. Our products primarily target application fields such as special drones , agricultural drones , embodied robots , folding e-bikes , high-speed electric motorcycles , electric kayaks , and overseas electric garden tools . Our current product portfolio covers material systems including NCM , LCO , LFP, and LMFP, with single cell capacities focused on 15Ah~ 120Ah , gravimetric energy densities ranging from 150Wh/ kg to 450Wh/ kg , and discharge rates from 3C to 80C. the product form is based on the " minimalist design" concept , featuring a pouch stacked structure , offering the best safety performance , highest energy density, long cycle life , and excellent rate capability among existing battery formats . Beyond focusing on the R& D and production of conventional products , we collaborate closely with numerous research institutions such as the Chinese Academy of Sciences , Tsinghua University, Peking University, Zhejiang University, Harbin Institute of Technology, Southern University of Science and Technology, and Southwest Petroleum University. We possess extensive technological reserves in cutting-edge fields like ultra-high nickel NCM , ultra-high voltage LCO , lithium-rich manganese-based materials , porous silicon carbon , solid-state electrolytes , dry electrode processing , lithium metal batteries , and anode-free batteries . We have already delivered multiple batches of ultra-high energy density batteries , high-rate batteries , ultra-low temperature batteries , and semi-solid batteries to customers .

The company has been granted over 30 invention and utility model patents . Through continuous technological iteration and production process innovation , employing multi-dimensional disruptive micro-innovation technologies , we are committed to providing global customers with high-safety, cost-effective energy systems and comprehensive energy solutions .

Corporate Culture

corporate vision: Committed to becoming a world-leading premier manufacturer of semi-solid large-capacity UAV batteries

corporate Mission: Providing global customers energy system and whole energy solutions with high safety and cost-effective performance with multi-dimensional disruptive micro-innovative technology.

core values: Lean management, innovation and trustworthiness.

core concepts: Honesty, integrity, unity, innovation, and win-win cooperation

Development History



March 2021

In March 2021, the Jiangxi Production Base was officially set up, with its registered address in Yichun, the Lithium Capital of Asia.



December 2021

In December 2021 Shenzhen Hsun was registered and established.



November 2022

In November 2022,was rated as a"seed unicom" enterprise in Jiangxi Province.



February 2023

In February 2023,it won the "Science and Technology Innovation Achievement Award"of Yichun City in 2022.



March 2023

Obtain integrated management of industrialization and industrialization System Evaluation Certificate.



October 2023

Was recognized as a "Specialized,Refined, Characteristic, and Innovative" SME in Jiangxi Province in 2003.



November 2023

Obtained High-Tech Enterprise Certification.



February 2024

In Fabnuary 2024,it won the 2023 Yichun City "Infromatization and Industrialization Integration Demonstralion Award.



June 2024

Won the 2024 "Provincial Enterprise Technology Center" award.



February 2025

In February 2025,won the Yichun City "Innovation Platform Carrier Awand.



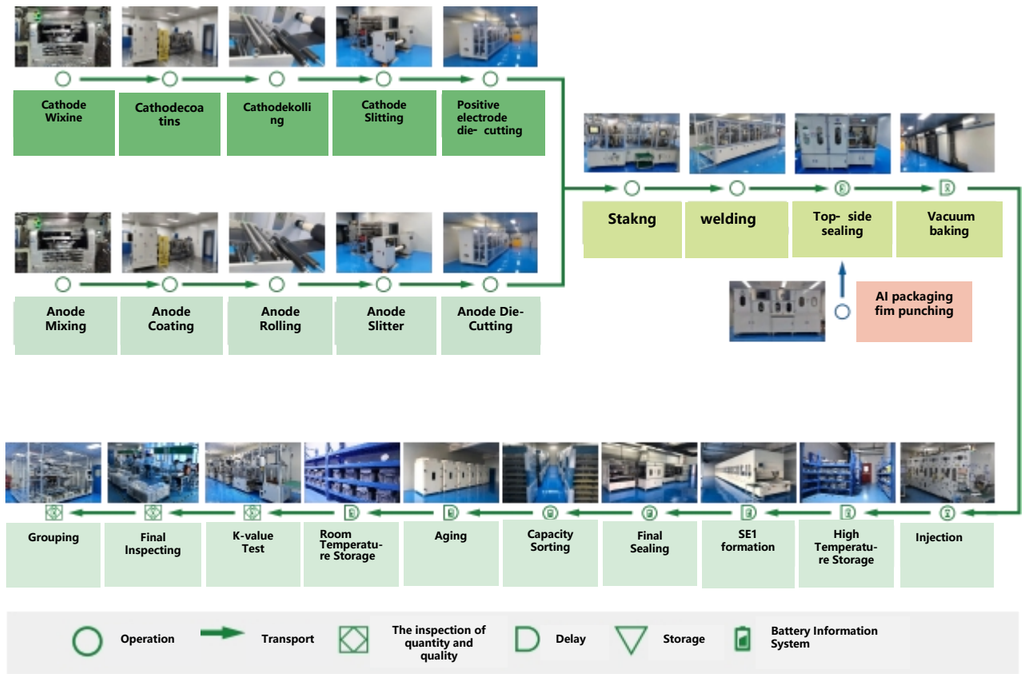
March 2026

Awarded the 2026 Science and Technology Innovation Achievement Award.



Cell Manufacturing process . . .

Our manufacturing facility applies multi-dimensional innovations across multiple cell Production processes, achieving significant improvements in efficiency and quality. These optimizations help shorten lead time to 12–18 days, compared with the industry average of 21–28 days.



Quality system . . .

ISO9001
Quality System Certification

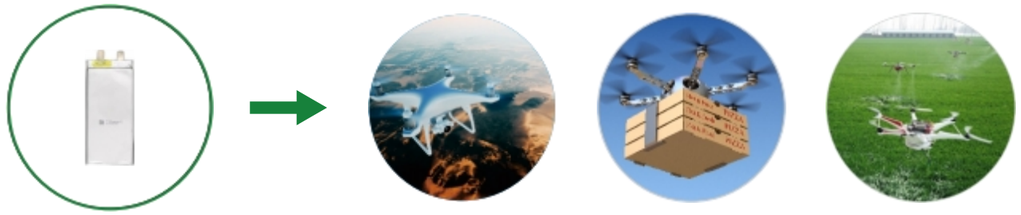
ISO14001
Environmental Management System Certification

ISO45001
Occupational Health and Safety Management System Certification

Cell Specifications — High-rate drone battery series

Model		6375H5	A375H5	A5D6K7	A6A5P0	A7A5T5
Rated voltage(v)		3.75	3.95	3.75	3.75	3.75
Capacity (AH)		10	16	30	30	38
Dimension (mm)	Thickness	6.5 max	10.3 max	10.5 max	10.6 max	11.0 max
	Width	75 max	75 max	136 max	105 max	105 max
	Length	175 max	175 max	197 max	230 max	265 max
	Tab width	25	25	45	35	35
Cell Weight(g)		170	279	551	545	660
Cell Internal Resistance(mΩ)		≤ 1.5	≤ 1.0	≤ 0.8	≤ 0.8	≤ 0.8
Gravimetric Energy Density(wh/kg)		221	227	204	206	216
Cycle life		1C/6C@500≥80%	1C/6C@500≥80%	5C/10C@1000≥80%	5C/10C@1000≥80%	5C/10C@1000≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		3C	3C	5C	5C	5C
Maximum continuous discharge		8C	12C	10C	10C	10C
Maximum instantaneous discharge		15C	30C	25C	25C	25C
Remarks		Supports 3- 5C fast charging, continuous discharge up to 12c,instantaneous discharge up to 30c,cycle life 500-1000 cycles.Meets thedemands of racing drones and industrial high-speed UAVs for high burst power and rapid mission turnaround.				

Application scenario



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Cell Specifications — High-Energy-Density UAV Battery Cell Series

High-Energy-Density Drone Battery Cells (280~320 Wh/ kg)

Model		B188J9	1070H0	A270H1	7197T6	74D4W7
Rated voltage(v)		3.7	3.7	3.7	3.7	3.7
Capacity(Ah)		30	20	22	31.5	49
Dimension (mm)	Thickness	11.1 max	10.1 max	10.5 max	7.15 max	7.5 max
	Width	88 max	70 max	70 max	97 max	134 max
	Length	189 max	171 max	171 max	265.5 max	287 max
	Tab width	25	15	15	25	40
Cell Weight(g)		396	245	245	385	614
Cell Internal Resistance(mΩ)		≤1.5	≤2.3	≤2.3	≤2.3	≤1.5
Gravimetric Energy Density (wh/kg)		280	302	302	303	295
Cycle life		0.5C/5C@400≥80%	0.2C/3C@500≥80%	0.2C/3C@400≥80%	0.2C/3C@400≥80%	0.5C/2C@400≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		2C	1C	1C	1C	1C
Maximum continuous discharge		7C	3C	3C	3C	3C
Maximum instantaneous discharge		10C	5C	5C	5C	5C
Remarks		Large-capacity cells (20 ~ 50A h), combined with high energy density, can significantly extend the flight endurance of drones, meeting the requirements of industrial-grade operations such as long-endurance inspection and mapping.				

Application scenario



Cell Specifications — High-Energy-Density UAV Battery Cell Series

High-Energy-Density Drone Battery Cells (280~320 Wh/ kg)

Model		72D0a2	6875H5	8075H5	A6D6K7	A4G1N7
Rated voltage(v)		3.7	3.75	3.95	3.95	3.95
Capacity(Ah)		55	15	16	45	66
Dimension (mm)	Thickness	7.25 max	7.0 max	8.2 max	11.0 max	10.35 max
	Width	130 max	75 max	75 max	136 max	161 max
	Length	312 max	175 max	175 max	197 max	227 max
	Tab width	45	25	25	45	50
Cell Weight(g)		640	185	225	635	850
Cell Internal Resistance(mΩ)		≤1.5	≤2.0	≤2.0	≤1.0	≤0.8
Gravimetric Energy Density (wh/kg)		318	304	281	280	307
Cycle life		0.5C/2C@400≥80%	0.5C/2C@300≥80%	0.5C/3C@300≥80%	1C/3C@400≥80%	1C/1C@500≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		1C	1C	1C	2C	1.5C
Maximum continuous discharge		3C	3C	7C	5C	3C
Maximum instantaneous discharge		5C	5C	10C	10C	5C
Remarks		Large-capacity cells (15 ~66A h), combined with high energy density, can significantly extend the flight endurance of drones, meeting the requirements of industrial-grade operations such as long-endurance inspection and mapping.				

Application scenario



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Cell Specifications — High-Energy-Density UAV Battery Cell Series

High-Energy-Density Drone Battery Cells (350-370Wh/kg)

Model		8775H5	A675H5	8575H5	6497T6	B588J9
Rated voltage(v)		3.7	3.7	3.75	3.7	3.7
Capacity (Ah)		24.5	29.5	33	37.5	40
Dimension (mm)	Thickness	8.7 max	10.7 max	11.5 max	6.7 max	11.5 max
	Width	75 max	75 max	75 max	97 max	88 max
	Length	175 max	175 max	175 max	265.5 max	189 max
	Tab width	25	25	25	25	25
Cell Weight(g)		252	303	335	380	420
Cell Internal Resistance(mΩ)		≤ 2.5	≤ 2.0	≤ 2.0	≤ 2.5	≤ 1.5
Gravimetric Energy Density (wh/kg)		360	360	369	365	352
Cycle life		0.5C/2C@300≥80%	0.5C/2C@300≥80%	0.5C/2C@300≥80%	0.5C/1C@300≥80%	0.5C/2C@300≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		1C	1C	1C	1C	1C
Maximum continuous discharge		3C	3C	3C	3C	3C
Maximum instantaneous discharge		5C	5C	5C	5C	5C
Remarks		High energy density, longer endurance with lighter weight; supports -30℃ to 75℃ operation. Ideal for long - endurance mapping, logistics & reconnaissance UAVs.				

Application scenario



Cell Specifications — High-Energy-Density UAV Battery Cell Series

High-Energy-Density Drone Battery Cells (400-440Wh/kg)

Model		9575H5	B075H5	9888J7	A890K5	9075H5
Rated voltage(v)		3.7	3.7	3.7	3.7	3.7
Capacity (Ah)		30	34	40	48	30
Dimension (mm)	Thickness	9.5 max	11.0 max	9.8 max	10.8 max	9.0 max
	Width	75 max	75 max	88 max	90 max	75 max
	Length	175 max	175 max	189 max	195 max	175 max
	Tab width	25	25	25	30	25
Cell Weight(g)		277	314	365	434.5	252
Cell Internal Resistance(mΩ)		≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
Gravimetric Energy Density (wh/kg)		401	401	405	409	440
Cycle life		0.2C/0.5C@200≥80%	0.2C/0.5C@200≥80%	0.2C/0.5C@200≥80%	0.2C/0.5C@200≥80%	0.2C/0.5C@100≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		1C	1C	1C	1C	0.5C
Maximum continuous discharge		3C	3C	3C	3C	3C
Maximum instantaneous discharge		5C	5C	5C	5C	5C
Remarks		Energy density up to 440Wh/kgsay goodbye to battery anxiety				

Application scenario



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Cell Specifications —Folding scooter & high-speed electric motorcycle battery series

Model		83F6Q0	80F4b0	98F9S8	B9 F4b0	D0F4b0
Rated voltage(v)		3.7	3.75	3.75	3.75	3.75
Capacity (Ah)		40	53	55	70	90
Dimension (mm)	Thickness	8.4 max	8.0 max	9.8 max	11.9 max	13.0 max
	Width	156 max	154 max	159 max	154 max	154 max
	Length	240 max	320 max	258 max	320 max	320 max
	Tab width	40	50	50	50	50
Cell Weight(g)		650	838	842	1267	1378
Cell Internal Resistance(mΩ)		≤ 2.0	≤ 1.5	≤ 1.0	≤ 1.0	≤ 1.0
Gravimetric Energy Density (wh/kg)		228	237	245	207	245
Cycle life		0.5C/0.5C@1200≥80%	0.5C/0.5C@1200≥80%	0.33C/0.5C@1500≥80%	1C/3C@500≥80%	0.33C/0.5C@1500≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		1C	1C	1.5C	2C	1.5C
Maximum continuous discharge		2C	2C	3C	5C	3C
Maximum instantaneous discharge		4C	4C	4C	4C	4C
Remarks		Semi-solid high safety certification: passed the needle puncture and overcharge tests to achieve multi-batch mass production and delivery.				

Application scenario



Cell Specifications —Solid.Ultra-low temperature & fast charging battery series

Model		98L4E2	80F3b0	67G1N7	80G1N7	95G1N7
Rated voltage(v)		3.2	3.2	3.2	3.2	3.2
Capacity (Ah)		22	35	20	24	30
Dimension (mm)	Thickness	9.8 max	8.3 max	6.75 max	8.0 max	9.5 max
	Width	204 max	153 max	161 max	161 max	161 max
	Length	142 max	320 max	227 max	227 max	227 max
	Tab width	70	100	50	50	50
Cell Weight(g)		500	750	460	550	650
Cell Internal Resistance(mΩ)		≤ 1.2	≤ 1.0	≤ 1.5	≤ 1.5	≤ 1.5
Gravimetric Energy Density (wh/kg)		141	149	139	140	148
Cycle life		1C/1C@3000≥80%	1C/1C@2000≥80%	3C/1C@1500≥80%	3C/1C@1500≥80%	3C/1C@1500≥80%
Operating temperature(℃)		Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃	Charge: 0- 45℃ Discharge: -20- 60℃
Maximum continuous charging		3C	2C	5C	5C	5C
Maximum continuous discharge		12C	12C	8C	8C	8C
Maximum instantaneous discharge		25C	25C	10C	10C	10C
备注 Remarks		-40℃ ultra-low temperature discharge, 12C continuous / 25C pulse, 2000 ~ 3000 cycles. Ideal for fast-charging e-bikes, home energy storage, portable power, special vehicles, and start-stop power in extreme -cold environments.				

Application scenario



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