

Goldencell Battery Lighting Global



SHANDONG GOLDENCELL
ELECTRONICS TECHNOLOGY CO.,LTD

**山东精工电子科技
有限公司** **中国·CHINA**



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About Us

Established in 2008, Shandong Goldencell Electronics Technology Co., Ltd is a high-tech enterprise which integrates R&D, manufacturing, sales and service of new energy products. Specialized in Lithium ion Battery Cathode Material, Rechargeable Lithium ion battery cell, customized battery pack, BMS and Super Capacitor. Goldencell is committed to the development and application of new energy products. The main customers include famous enterprises both at home and abroad such as China Shipbuilding Industry, American general electric (GE), PK, BMZ, etc.

Goldencell focuses on technology R&D and independent innovation, has granted 610 patents, which including 101 invention patents and the number of invention patents ranked fifth in China. Goldencell has been

certified ISO9001 Quality System, IATF16949 Automotive Industry Management System, ISO14001 Environmental System, OHSAS18001:2007 Occupational Health and Safety System and GB/T29490-2013 Intellectual Property System. Its products have passed UL, UN38.3, ROHS, CE, CB, BIS, KC, MSDS and National Mandatory Testing.

Goldencell is the first lithium battery company in China who pass the CCS certification. Its lithium iron phosphate battery can be applied to civil and military vessels.

Goldencell will keep quality oriented and striving for the best. Goldencell is willing to persist in providing new energy products with high-reliability to the society and strive to promote the sustainable development of human green energy!



Main Products

Lithium ion Battery Material

LiFePO₄

Features

1. Independent patent technology, stable mass production;
2. Stable structure, high compaction density and excellent cycle life;
3. Wide operating temp range and good low temp performance;
4. High safety, reliability and a wide range of applications;
5. Environment friendly.



Model	D ₅₀ , μm	Specific surface area(m ² /g)	Tap density (g/cm ³)	Electric conductivity 10 ⁻² S/cm	H ₂ O, %	pH	C, %	Low temp discharge percentage(-20°C)	1C capacity (mAh/g)	5C capacity (mAh/g)
XPF1	1.00~5.00	≤20	≥0.7	≥1.0	≤0.1	7~10	1.00~3.00	≥48%	≥142	≥115
XPF2	1.00~5.00	≤20	≥0.7	≥2.0	≤0.1	7~10	1.50~3.50	≥48%	≥143	≥125
XPF3	1.00~5.00	≤20	≥0.7	≥0.5	≤0.1	7~10	1.00~3.00	≥60%	≥142	≥115

NCM

Features

1. Independent research and development, can be customized;
2. High capacity, good processability, high batch stability;
3. Long cycle life, good rate performance;
4. Excellent high and low temperature performance.



Model	D ₅₀ , μm	Specific surface area(m ² /g)	Tap density (g/cm ³)	Electric conductivity 10 ⁻² S/cm	H ₂ O, %	pH	Ni+Co+Mn, %	1C capacity (mAh/g)	Cycle
XPS5	8-15	0.2-0.6	≥2.3	≥2.0	≤0.04	10~12	58.8±1.0	≥154.0	800th≥80%
XPS8	8-15	0.2-0.6	≥2.3	≥1.0	≤0.05	11~12.5	59.5±1.0	≥173.0	500th≥80%
XPS6	8-15	0.2-0.6	≥2.3	≥3.0	≤0.04	10~12.5	59.0±1.0	≥160.0	500th≥80%

Main Products

Lithium ion Battery Cell



Features

1. Focus on cylindrical cell, mature and stable technology;
2. Safety-focused formula, structure and process design, combination of safety, consistency, and long cycle life, as the pioneer of the industry;
3. High capacity LFP cylindrical cell, industry-leading comprehensive performance;
4. Widely applications, environment friendly;
5. Diversified portfolio of LFP and NCM products.

Cylindrical Cell List

Type	Item	Nominal Voltage /V	Nominal Capacity /mAh	Charge Current (Max.)	Discharge Current			IR /mΩ	Size/mm	Weight /g
					Standard	Fast	Max.			
LFP Capacity Type	HTCFR18650-1600mAh-3.2V	3.2	1600	1C	0.5C	1C	3C	≤40	φ18.35*65.3	39.5
	HTCFR18650-1800mAh-3.2V	3.2	1800	1C	0.5C	1C	3C	≤40	φ18.35*65.3	41.5
	HTCFR26650-3600mAh-3.2V	3.2	3600	1C	0.5C	1C	3C	≤25	φ26.15*65.6	85
	HTCFR26650-3800mAh-3.2V	3.2	3800	1C	0.5C	1C	3C	≤25	φ26.15*65.6	87.5



Main Products

Lithium ion Battery Cell

Type	Item	Nominal Voltage /V	Nominal Capacity /mAh	Charge Current (Max.)	Discharge Current			IR /mΩ	Size/mm	Weight /g
					Standard	Fast	Max.			
LFP Rate Type	HTPFR26650-3000mAh-3.2V	3.2	3000	3C	2C	5C	10C	≤15	φ26.15*65.6	81.5
	HTPFR18650-1100mAh-3.2V	3.2	1100	5C	5C	10C	30C	≤18	φ18.35*65.3	39.5
NCM Capacity Type	HTCNR18650-2200mAh-3.6V	3.6	2200	1C	0.5C	1C	3C	≤35	φ18.35*65.3	42.5
	HTCNR18650-2500mAh-3.6V	3.6	2500	0.5C	0.5C	1C	2C	≤35	φ18.35*65.3	44.5
	HTCNR18650-2600mAh-3.6V	3.6	2600	0.5C	0.5C	1C	2C	≤35	φ18.35*65.3	45
	HTCNR26650-4500mAh-3.6V	3.6	4500	1C	0.5C	1C	2C	≤30	φ26.15*65.6	91
	HTCNR26650-5000mAh-3.6V	3.6	5000	1C	0.5C	1C	2C	≤30	φ26.15*65.6	95



Main Products

SLA Replacement Battery

Features

1. Long cycle life, 10 times of SLA battery, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output;
5. Optional communication function, smart control.



Item	Charge Voltage	Working Current	Weight	Size	SLA
6.4V5.4Ah	7.2V	2.7A	350g	70*47*101mm	6V4.5Ah
12.8V1.8Ah	14.4V	0.9A	240g	97*43*52mm	12V1.2Ah
12.8V5.4Ah	14.4V	2.7A	665g	90*70*101mm	12V4Ah
12.8V9Ah	14.4V	4.5A	1.1Kg	151*65*93mm	12V7Ah
12.8V14Ah	14.4V	7.2A	1.7kg	151*98*94mm	12V12Ah
12.8V30Ah	14.4V	15A	3.4kg	181*76.5*168mm	12V18Ah

Main Products

SLA Replacement Battery

(Continued)

Item	Charge Voltage	Working Current	Weight	Size	SLA
12.8V36Ah	14.4V	18A	4.2kg	175*175*112mm	12V24Ah
12.8V38Ah	14.4V	19A	4.4kg	174*165*125mm	12V24Ah
12.8V42Ah	14.4V	21A	5.2kg	194*130*158mm	12V33Ah
12.8V60Ah	14.4V	30A	6.4kg	195*165*175mm	12V40Ah
12.8V80Ah	14.4V	40A	9.5kg	228*138*208mm	12V55Ah
12.8V120Ah	14.4V	61A	13.1kg	259*167*212mm	12V76Ah
12.8V152Ah	14.4V	75A	16.5kg	328*172*212mm	12V100Ah
12.8V245Ah	14.4V	121.6A	26.5kg	483*170*235mm	12V150Ah



Main Products

Intelligent Manufacturing Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output;
5. Intelligent control, visual design.



Item	Charge Voltage	Working Current	Weight	Size
25.6V19Ah	28.8V	19A	5.1kg	333*139*79mm
25.6V26Ah	28.8V	10A	5.8kg	250*177*95mm
25.6V76Ah	28.8V	76A	18.8kg	350*255*165mm
25.6V300Ah	28.8V	200A	99kg	745*630*203mm
38.4V6Ah	43.2V	18A	2.4kg	225 *105 *72mm
38.4V16Ah	43.2V	16A	5.2kg	248*200*73mm
38.4V30Ah	43.2V	30A	11.6kg	240*120*260mm
50.4V126Ah	58.8V	120A	55kg	580*420*190mm
51.2V30Ah	57.6V	70A	22.4kg	470*300*100mm
51.2V240Ah	57.6V	200A	152kg	745*430*505mm

Main Products

Lighting Battery

Features

- 1.Long cycle life, high reliability;
- 2.Small size, light weight, higher energy density, environment friendly;
- 3.Wider working temperature range, excellent high and low temperature performance;
- 4.High efficiency, stable power supply, high power output;
- 5.Ultra-low power consumption and long continuous power supply.



Item	Charge Voltage	Working Current	Weight	Size
3.2V1.6Ah	3.65V	1.6A	46g	Φ21*67mm
3.2V1.8Ah	3.65V	1.8A	46g	Φ21*67mm
3.2V3.8Ah	3.65V	3.8A	90g	Φ28.5*67mm
3.2V7.2Ah	3.65V	3.8A	175g	74*18.5*68mm
3.2V10.5Ah	3.65V	5A	300g	129*19*69mm
3.6V2.2Ah	4.2V	2.2A	46g	Φ21*67mm
3.6V2.6Ah	4.2V	2.6A	48g	Φ21*67mm
6.4V1.8Ah	7.2V	3A	90g	70*37*20mm
6.4V3.6Ah	7.2V	3A	180g	136*37*20mm
6.4V7.2Ah	7.2V	7.2A	370g	79*38*75mm

Main Products E-bike & E-scooter Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, green and environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output;
5. Optional communication function, smart control.



Item	Charge Voltage	Working Current	Weight	Size
36V15.6Ah	42V	15.6A	4.0kg	390*110*76.5mm
46.8V10.4Ah	54.6V	10.4A	4.2kg	433*157*64mm
46.8V10.4Ah	54.6V	10.4A	3.4kg	364*91*90mm
46.8V13Ah	54.6V	13A	4.0kg	339*110*76.5mm
46.8V13Ah	54.6V	13A	4.4kg	382*148*68mm
46.8V24Ah	54.6V	24A	6.5kg	190*142*138mm

Main Products E-bike & E-scooter Battery

(Continued)

Item	Charge Voltage	Working Current	Weight	Size
46.8V100Ah	54.6V	60A	47kg	709*223*220mm
50.4V145Ah	58.8V	90A	57kg	480*250*236mm 240*180*230mm
51.2V76Ah	57.6V	80A	34.5kg	430*222*230mm
51.2V120Ah	57.6V	90A	60kg	480*250*236mm 240*180*230mm



Main Products / Power Tool Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output, visual design;
5. Simple and flexible assembly.



Item	Charge Voltage	Working Current	Weight	Size
10.8V26Ah	12.6V	13A	1.7kg	179*100*76mm
12.8V19Ah	14.4V	16A	2.1kg	168*128*76mm
12.8V26Ah	14.4V	16A	2.9kg	168*128*102mm
14.4V15.4Ah	16.8V	15A	1.7kg	142*96*175mm
14.4V18Ah	16.8V	15A	1.9kg	142*96*175mm
14.4V20Ah	16.8V	20A	2.1kg	212*194*54mm
14.4V30Ah	16.8V	20A	2.7kg	194*182*63mm
25.2V9h	29.4V	9A	1.4kg	186*76*58mm
25.2V10Ah	29.4V	10A	1.4kg	186*76*58mm
28.8V15.6Ah	33.6V	15A	2.9kg	230*136*94mm

Main Products

Energy Storage Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output, visual design;
5. Modular design, easy maintenance.



Item	Charge Voltage	Working Current	Scalable function	Size
51.2V50Ah	57.6V	50A	Parallel connection	483*560*132mm
51.2V60Ah	57.6V	50A	Integrated AC output	460*320*353mm
51.2V300Ah	57.6V	300A	Integrated AC output	665*755*1250mm
51.2V500Ah	57.6V	400A	Integrated AC output	840*785*1250mm
256V60Ah	288V	50A	Integrated AC output / Parallel connection	820*610*1240mm
416V150Ah	468V	150A	Integrated AC output	2-826*596*1478mm
576V144Ah	648V	144A	Integrated AC output	800*800*2100mm

Main Products

Marine Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output, visual design;
5. High self-maintenance and strong environmental adaptability.



Item	Charge Voltage	Working Current	Weight	Size
12.8V200Ah	14.4V	200A	44kg	370*260*300mm
12.8V500Ah	14.4V	200A	90kg	510*500*300mm
25.6V200Ah	28.8V	200A	80kg	550*322*300mm
25.6V500Ah	28.8V	200A	182kg	782*600*300mm
112V200Ah	126V	200A	356kg	860*514*335mm
224V200Ah	252V	200A	630kg	6-580*520*300mm
540V250Ah	604.8V	100A	1288kg	14-1070*195*335mm

Main Products

Electric Vehicles Battery

Features

1. Long cycle life, high reliability;
2. Small size, light weight, higher energy density, environment friendly;
3. Wider working temperature range, excellent high and low temperature performance;
4. High efficiency, stable power supply, high power output, visual design;
5. Modular design, easy maintenance.



Item	Charge Voltage	Working Current	Weight	Size
46.8V110Ah	54.6V	110A	51.5kg	550*480*220mm
46.8V145Ah	54.6V	100A	62kg	700*280*296mm
50.4V180Ah	58.8V	150A	76kg	650*365*260mm
51.2V180Ah	57.6V	100A	92kg	645*365*275mm
76.8V240Ah	86.4V	120A	188kg	1120*510*260mm
97.2V270Ah	113.4V	200A	206kg	500*370*350mm/690*450*433mm
302.4V109Ah	352.8V	100A	300kg	1350*1295*180mm
384V165Ah	432V	165A	655kg	1450*558*399mm/1146*558*399mm

Main Products

Super Capacitor

Features

1. Light weight, small size and high capacitance;
2. Small leakage current, low impedance and good consistency;
3. Wide working range, long cycle life and maintenance free;
4. Green, lead free and ROHS compliant.



Model	Rated Voltage/V	Nominal Capacitance /F	Resistance (Ω @1KHz)	V Type			H Type			C Type		
				ϕ D	H	P	ϕ D	H	P	ϕ D	H	P
SC5R5104Z	5.5	0.1	≤ 65	9.5	14.1	4.5	9.5	8.6	10	13.0	13.0	5
SC5R5224Z	5.5	0.22	≤ 65	9.5	14.1	4.5	9.5	8.6	10	13.0	13.0	5
SC5R5334Z	5.5	0.33	≤ 65	9.5	14.1	4.5	9.5	8.6	10	13.0	13.0	5
SC5R5474Z	5.5	0.47	≤ 30	12.5	17.5	4.5	12.5	8.6	12.5	20.5	12.5	5
SC5R5105Z	5.5	1	≤ 20	19.0	23.0	4.5	19.0	9.2	19.0	20.5	12.5	5
SC5R5155Z	5.5	1.5	≤ 20	19.0	23.0	4.5	19.0	9.2	19.0	20.5	12.5	5
SC5R5405Z	5.5	4	≤ 16	25.0	28.5	7	25.0	9.0	25			





Main Products

Super Capacitor

Model	Rated Voltage/V	Nominal Capacitance/F	Resistance (mΩ@1KHz)	Size/mm
SR2R7105Z-L	2.7	1F	≤400	8*13.5
SR2R7205Z-L	2.7	2F	≤300	8*20.5
SR2R7475Z-L	2.7	4.7F	≤120	12.5*21.5
SR2R7805Z-L	2.7	8F	≤90	12.5*21.5
SR2R7206Z-L	2.7	20F	≤40	16*26.5
SR2R7306Z-L	2.7	30F	≤30	16*32.5
SR2R7406Z-L	2.7	40F	≤30	18*41.5
SR2R7606Z-S	2.7	60F	≤25	22*44.5
SR2R7127Z-S	2.7	120F	≤15	25*44.5
SR2R7157Z-S	2.7	150F	≤14	25*49.5
SR2R7207Z-S	2.7	200F	≤12	25*59.5
SR2R7307Z-S	2.7	300F	≤10	35*54.5
SR2R7367Z-S	2.7	360F	≤8	35*61.0
SR2R7407Z-S	2.7	400F	≤7.5	35*70.0



Customer

Sincere Cooperation, Sharing Honors



Customized Service

Eternal pursuit for customer satisfaction

**World-leading lithium ion battery customized solution
and product manufacturer**

Custom-made to
your industry

Reliable, safe
and quick

120 R&D
engineers

A one-to-one lithium battery custom design solution for global users

Our Team

***Laying strong foundations and
building on the successes
Continuing success on a firm foundation***

United for a bright future/ United for a better future
Goldencell Lithium battery

Talent is the greatest wealth for Goldencell.
Talent is foundation and competition for enterprise development.



精工用芯 点亮

Enterprise Culture



Honors, Patents, Certificates





Goldencell Battery Lighting Global

Product Certificates

UL	UN38.3	ROHS	CE	CB
BIS	KC	GOST	MSDS	CCS

etc

Company Certificates

ISO9001:2015	IATF16949:2016
OHSAS 18001	GB/T29490-2013
ISO 14001:2015	

Technology Patents

More than 600 patents including invention patents and utility model design patents.





Goldencell Battery Lighting Global

Production line



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