

# JIULI GROUP

专注蓄电池行业 20 年  
Focus on battery industry for 20 years



山东久力新能源集团有限公司  
Shandong Jiuli New energy Group Co., Ltd.





## 久力集团20年 专注于蓄电池的科研、生产与销售。

■ **2001年** 公司成立  
Founded in 2001

■ **1480000m<sup>2</sup>** 占地面积  
It covers an area of 1480000 square meters

■ **480人** 公司员工  
480 employees

■ **10000万** 注册资金  
100 million registered capital

## COMPANY PROFILE

### 公司简介

山东久力新能源集团有限公司成立于2001年，位于山东日照五莲，注册资金1亿元，集团占地1480000m<sup>2</sup>，现有职员480人，其中各类工程技术人员75人。20年来专注于起动免维护蓄电池的研发、制造和销售，是一家高新技术企业。公司核心的生产和检测设备是从德国、意大利、奥地利进口，先后研发了起停车辆用EFB、AGM蓄电池，-41℃超低温特种装备用12V、24V免维护蓄电池，EVF长寿命电动道路车用蓄电池、储能用蓄电池等十多个系列，150多个型号，年产能200万只，是山东省最大的起动型免维护蓄电池生产企业。

产品出口到东南亚、欧洲、非洲、中东、美洲等国家地区，受到客户一致好评。公司设有山东省院士工作站，山东省企业技术中心，山东省工业设计中心，日照市动力电池工程研究中心等研发平台，并与山东大学，山东理工大学，江苏理工大学等高校签订了产学研合作协议，并成立了山东理工大学久力新型电池联合研发中心，为公司未来发展提供了有力的技术保障。

未来，久力集团将综合统筹各品牌市场销售网络，优化产品结构，增加产品品类，让更丰富，更多元的蓄电池产品渗透到国际市场体系，进一步提升产品的知名度与竞争力。

Shandong Jiuli New energy Group Co., Ltd. founded in 2001, is located in Wulian, Rizhao, Shandong Province, with a registered capital of 100 million yuan. The group covers an area of 1480000m<sup>2</sup> and has 480 employees, including 75 engineers and technicians. Over the past 20 years, it is a high-tech enterprise focusing on the R & D, manufacturing and sales of maintenance free starting batteries. With an annual capacity of 2 million, the company is the largest maintenance free starter battery manufacturer in Shandong Province.

The products are exported to Southeast Asia, Europe, Africa, Middle East, America and other countries and regions, and are well received by customers. It has Shandong academician workstation, Shandong enterprise technology center and Shandong Industrial Design Center. It has signed industry university research cooperation agreements with Shandong University, Shandong University of science and technology, Jiangsu University of science and technology, and established Jiuli new battery joint research and development center.

In the future, Jiuli group will comprehensively coordinate the marketing network of various brands, optimize the product structure, increase product categories, and further enhance the popularity and competitiveness of products.





20年来，久力集团逐渐发展壮大，已成为国内大型蓄电池企业之一。公司具备极其完善的质量保障体系，已通过ISO9001、IATF16949质量管理体系认证，ISO14001环境管理体系认证和ISO45001职业健康管理认证。

Over the past 20 years, Jiuli group has gradually developed and expanded, and has become one of the large battery enterprises in China. The company has perfect quality assurance system and has passed ISO9001, IATF16949 quality management system certification, ISO14001 environmental management system certification and ISO 45001 occupational health management certification.

## ENTERPRISE HONOR

### 资质荣誉

荣誉是久力集团对自己付出的肯定，也是客户永久信赖的基石。久力集团20年，一路风雨兼程，取得了骄人的业绩和成就，我们恪守初心，我们专注于专业，赢得了业绩和客户的认可、赞美，获得了极好的口碑与赞誉。荣誉是久力集团20年，一路走来一次次自我突破与不断的提升，是实力最好的诠释和证明。

Honor is Jiuli group's affirmation of self pay and the cornerstone of customers' permanent trust. Over the past 20 years, Jiuli group has made remarkable achievements and achievements. We have adhered to our original intention and focused on our profession. We have won the recognition and praise of performance and customers, and won excellent reputation and praise. Honor is Jiuli group's 20 years of self breakthrough and continuous improvement, which is the best interpretation and proof of strength.



## SCOPE OF APPLICATION

### 应用领域



公司研发生产的起动用铅酸蓄电池、动力EVF蓄电池、储能用蓄电池已被广泛应用在汽车起动，电动车动力、太阳能发电等。产品已出口到东南亚、欧洲、非洲、中东、美洲等国家和地区。电池型号齐备，种类齐全，适用于乘用车、卡车、道路车、各类工程机械、船舶、5G基站、风力发电等，覆盖交通运输、科技技术等领域。

The lead-acid battery for starting, EVF battery and energy storage battery developed and produced by the company have been widely used in automobile starting, electric vehicle power, solar power generation, etc. Products have been exported to Southeast Asia, Europe, Africa, the Middle East, America and other countries and regions. It is suitable for passenger cars, trucks, road vehicles, all kinds of construction machinery, ships, 5g base stations, wind power generation, etc., covering transportation, science and technology and other fields.



## COOPERATIVE PARTNER

### 合作伙伴

目前，公司已与中国重汽、江淮汽车、一汽解放、五征集团、飞碟汽车、黑豹汽车、山东临工、明宇重工、宗申等企业达成合作配套企业，客户给予了产品高度认可。

At present, the company has reached cooperation and supporting enterprises with SINOTRUK, Jianghuai Automobile, FAW Jiefang, Wuzheng group, Feidie automobile, Heibao automobile, Lingong, Mingyu heavy industry, Zongshen and other enterprises, and the products are highly recognized by customers.



## TESTING EQUIPMENT 检测设备

公司拥有先进的化验室和试验室设备，优秀的科技人才，做到产品与质量并重。我们以科技创新作为企业发展后盾，通过不断引进国内外先进技术、设备和经验，已建立了先进的生产工艺流程和可靠的质量保证体系，产品受到国内外客户一致好评。

The company has advanced laboratory and laboratory equipment, excellent scientific and technological personnel, to achieve both product and quality. We have established advanced production process and reliable quality assurance system, and our products are well received by customers at home and abroad.



公司试验室 Company laboratory



公司化验室 Company laboratory



极板车间 Lead plate workshop (意大利索维玛扩网线 Italy Sovema cast & punch machine)

## PRODUCTION WORKSHOP 生产车间

近年来，公司大量引进新型及先进的蓄电池成套生产线和检测设备，现有极板车间、注塑车间、组装车间、化成车间等。由自动化连续薄铅带生产线、固化生产线、组装生产线、化成生产线、制水配酸区等一系列先进设备组成。

In recent years, the company has introduced a large number of new and advanced battery production lines and testing equipment, existing Lead plate workshop, Injection workshop, Assembly workshop, Chemical workshop, etc. It is composed of a series of advanced equipment Automatic continuous think lead plate line, Curing producing line, Assembly line, Chemical production line, Acid water mixer area, etc.



自动连续薄铅带生产线 Automatic continuous think lead plate line



奥地利BM包封机 Austrian BM encapsulating

先进设备的引进极大的提高了公司生产能力，规范化的生产车间，专业化、智能化的机械设备，是我们高效生产力的保障，助我们在前进的道路上实现新的跨越。

The introduction of advanced equipment has greatly improved the company's production capacity. The standardized production workshop and specialized and intelligent mechanical equipment are the guarantee of our high-efficiency productivity and help us to achieve new leaps on the way forward.

化成车间 Chemical workshop



组装车间 Assembly workshop



注塑车间 Injection workshop

## PRODUCT STRUCTURE 产品结构





### 起动型铅酸蓄电池性能特征:

The performance of the lead-acid starter batteries

- 采用拉网技术, 大电流放电性能好
- 采用冲网技术, 电池耐腐蚀, 使用寿命长
- 特殊端子冷压技术, 防止端子渗漏酸
- 采用紧装配技术, 电池耐震性能好
- 采用低钙高锡合金, 膏栅结合牢固
- 加装滤气片, 电池使用过程无酸雾逸出, 失水少

- Expanded grid technology Sovema cast&punch line ensures the output battery has larger capacity and better performance in discharge.
- Negative&Positive plates with punched grids Ensure the long life usage time of lead acid battery.
- Terminal cold pressed site under battery cover promises no leakage and anti-corrosion.
- Tight assembly technology ensures good performance in seismic resistance.
- Pure lead alloyed with a proper proportion of Sn, calcium and aluminium grants the corrosion resistance of produced plate.
- Air filter sheet mounted ensures no sulfuric acid mist escape and less water loss during the running of lead acid battery.

### 起动用铅酸蓄电池的优势:

Advantages of Starter battery

特殊的铅合金成分 Special alloy formula	高倍率放电性能好 High performance in high-rate discharge
拉网式板栅结构 Expanded grid structure	免维护 Maintenance free
独特的壳体设计 Talent protected casing design	使用寿命长 Long lifespan

**1** 采用特殊合金成分的拉网、冲网板栅  
减少自放电, 水损失少; 降低内阻, 增加活性物质结合牢固性能



**2** 低电阻、高孔率隔板  
起动性能优良, 有效防止正负极板内短路



**3** 中极耳紧装配  
耐冲击和震动, 导电性能好



**4** 密封式大盖结构, 智能荷电显示器 (电眼)  
防止漏酸, 减少析气, 防爆; 方便电池荷电状态检查



**5** 增强型特殊结构电池槽  
带有弹性筋条, 有利于极板耐震动功能



**6** 经特殊处理的极板配方  
极板均一一致, 延长电池寿命, 提高低温起动性能





### 动力用铅酸蓄电池性能特征:

The performance of traction batteries

- 采用AGM隔板胶体电解液，防止电解液分层，提高电池低温性能
  - 采用冲网技术，电池耐腐蚀，使用寿命长
  - 采用特殊合金配方，消除早期容量损失
  - 分组式均衡方案设计，有效防止电池组损坏
  - 采用低钙高锡合金，膏栅结合牢固
- AGM separator with gel electrolyte, to prevent the electrolyte stratification, and enhance CCA performance.
  - Punching grid process resists corrosion and Potentially longer service life.
  - Group equilibrium designed to prevent the damage of battery' s group.
  - Special alloy formula eliminate early capacity loss.
  - Pure lead alloyed with a proper proportion of Sn, calcium and aluminium grants the corrosion resistance of produced plate.

### 起动用铅酸蓄电池的优势:

Advantages of traction battery

AGM隔板 AGM separator	分组式均衡方案设计 Group equilibrium designed
冲网式板栅结构 Punched grid structure	免维护 Maintenance free
独特的结构设计 Unique structure design	使用寿命长 Long lifespan



### 储能用铅酸蓄电池性能特征:

Performance of energy storage battery

- 采用连铸连冲板栅成型技术，板栅耐腐蚀性能提高，电池寿命长
  - 超低温铅膏配方，适应于严寒地区，低温性能好
  - 采用特殊配方胶体电解液，深循环性能好
  - 新型合金配方，蓄电池失水少，寿命长
- Using continuous casting and punching grid forming technology, the grid corrosion resistance is improved and the battery life is long,
  - Special colloidal electrolyte with good deep circulation performance.
  - Ultra low temperature active material, suitable for cold areas, good low temperature performance.
  - The new alloy formula has less water loss and long service life.

### 储能用铅酸蓄电池的优势:

Advantages of energy storage battery

特殊的铅合金成分 Special alloy formula	高倍率放电性能好 High performance in high-rate discharge
超低温铅膏配方 Ultra low temperature active substance	免维护 Maintenance free
独特的壳体设计 Talent protected casing design	使用寿命长 Long lifespan



起动型免维护蓄电池 Starting type maintenance free battery



型号: 6-QW-20MF  
尺寸: 185\*125\*163 (170) mm  
电压容量: 12V20Ah



型号: 6-QW-28MF  
尺寸: 185\*125\*163 (170) mm  
电压容量: 12V28Ah



型号: 6-QW-45MF  
尺寸: 238\*129\*201 (222) mm  
电压容量: 12V45Ah



型号: 6-QW-60MF  
尺寸: 259\*172\*203 (225) mm  
电压容量: 12V60Ah



型号: 6-QW-100MF  
尺寸: 409\*174\*207 (229) mm  
电压容量: 12V100Ah



型号: 6-QW-200MF  
尺寸: 506\*263\*216 (240/255) mm  
电压容量: 12V200Ah

起停用AGM蓄电池 Start and stop AGM battery



型号: 6-QTF-60  
尺寸: 242\*175\*190mm  
电压容量: 12V60Ah



型号: 6-QTF-70  
尺寸: 278\*175\*190mm  
电压容量: 12V70Ah



型号: 6-QTF-80  
尺寸: 315\*175\*190mm  
电压容量: 12V80Ah



型号: 6-QTF-92  
尺寸: 353\*175\*190mm  
电压容量: 12V92Ah



型号: 6-QTF-105  
尺寸: 394\*175\*190mm  
电压容量: 12V105Ah

起停用EFB蓄电池 Start and stop EFB battery



型号: 6-QTPA-60 (Q85)  
尺寸: 230\*172\*203 (225) mm  
电压容量: 12V60Ah



型号: 6-QTPE-60 (L2)  
尺寸: 241\*174\*190mm  
电压容量: 12V60Ah



型号: 6-QTPE-70 (L3)  
尺寸: 277\*174\*190mm  
电压容量: 12V70Ah

纳米胶体蓄电池 Colloidal battery



型号: 6-QW-100  
尺寸: 409\*174\*207 (229) mm  
电压容量: 12V100Ah

特种装备蓄电池 Special battery



型号: 12-TKFM-115  
尺寸: 577\*240\*235mm  
电压容量: 24V115Ah

**储能用蓄电池 Energy storage battery**

 型号: 6-CNFJ-40  
 尺寸: 198\*166\*172mm  
 电压容量: 12V40Ah

 型号: 6-CNFJ-65  
 尺寸: 348\*167\*175mm  
 电压容量: 12V65Ah

 型号: 6-CNFJ-150  
 尺寸: 532\*207\*215 (220) mm  
 电压容量: 12V150Ah

 型号: CNFJ-200  
 尺寸: 172\*110\*330 (345) mm  
 电压容量: 2V200Ah

 型号: CNFJ-1000  
 尺寸: 480\*175\*330 (335) mm  
 电压容量: 2V1000Ah

 型号: CNFJ-2000  
 尺寸: 491\*351\*342 (347) mm  
 电压容量: 2V2000Ah

**储能用蓄电池技术参数**
**Technical parameters of energy storage battery**

部分型号 New Type	电压 Voltage	容量 Capacity(Ah)	外形尺寸 Battery Dimension (mm)			
			长 L	宽 W	高 H	总高 TH
3-CNFJ-4	6	4	70	47	100	105
3-CNFJ-10	6	10	151	50	94	100
3-CNFJ-160	6	160	298	172	227	230
3-CNFJ-200	6	200	323	178	226	230
6-CNFJ-4	12	4	90	70	101	106
6-HCNFJ-7.2	12	7.2	151	65	97	102
6-CNFJ-10	12	10	151	99	94	100
6-CNFJ-14	12	14	151	99	98	104
6-CNFJ-22	12	22	181	76	170	170
6-CNFJ-28	12	28	175	166	125	125
6-CNFJ-35	12	35	222	105	175	175
6-CNFJ-55	12	55	229	138	210	215
6-CNFJ-100	12	100	327	172	206	210
6-CNFJ-180	12	180	522	240	219	225
CNFJ-100	2	100	171	72	205	210
CNFJ-300	2	300	175	155	330	335
CNFJ-500	2	500	244	175	330	335
CNFJ-800	2	800	412	175	330	335
CNFJ-1500	2	1500	400	351	340	345
CNFJ-2500	2	2500	491	351	342	347
6-CNFT-55	12	55	277	106	228	228
6-CNFT-100	12	100	560	125	228	228

**电动道路车辆用蓄电池 Batteries for electric road vehicles**

 型号: 3-EVFJ-210  
 尺寸: 260\*180\*270 (275) mm  
 电压容量: 6V210Ah

 型号: 6-EVFJ-70  
 尺寸: 260\*169\*206 (210) mm  
 电压容量: 12V70Ah

 型号: 6-EVFJ-100  
 尺寸: 331\*176\*214 (219) mm  
 电压容量: 12V100Ah

 型号: 6-EVFJ-120  
 尺寸: 330\*172\*250 (255) mm  
 电压容量: 12V120Ah

 型号: 6-EVFJ-150  
 尺寸: 484\*170\*241mm  
 电压容量: 12V150Ah

**电动道路车辆用蓄电池技术参数**
**Technical parameters of batteries for electric road vehicles**

部分型号 New Type	电压 Voltage	容量 Capacity(Ah)	外形尺寸 Battery Dimension (mm)			
			长 L	宽 W	高 H	总高 TH
3-EVFJ-180	6	180	260	180	270	275
3-EVFJ-210	6	210	260	180	270	275
3-EVFJ-265	6	265	295	175	345	350
4-EVFJ-135	8	135	261	181	280	285
4-EVFJ-150	8	150	260	182	295	300
6-EVFJ-27	12	27	175	167	126	126
6-EVFJ-32	12	32	222	105	175	175
6-EVFJ-40	12	40	222	120	175	175
6-EVFJ-60	12	60	260	169	206	210
6-EVFJ-70	12	70	260	169	206	210
6-EVFJ-80	12	80	327	172	206	210
6-EVFJ-100	12	100	331	176	214	219
6-EVFJ-120	12	120	330	172	250	255
6-EVFJ-150	12	150	484	170	241	241

## Start Battery Specification

New Type	Standard	Voltage	Capacity (Ah) at 20HR	CCA	Battery Dimension (mm)				Approx Weight with Acid	Terminals	Cell Lay-outs
					L	W	H	TH			
JIS Standard											
36B20	NS40	12	32	300	196	129	201	222	9.5±0.5	B	2
36B20	NS40(L)	12	32	300	196	129	201	222	9.5±0.5	B	1
36B20L	NS40Z(L)	12	36	300	196	129	201	222	10.1±0.5	B	1
36B20R	NS40Z	12	36	300	196	129	201	222	10.1±0.5	B	2
32C24R	N40	12	40	315	238	129	201	222	11.7±0.5	A	2
32C24L	N40L	12	40	315	238	129	201	222	11.7±0.5	A	1
46B24R	NS60	12	45	400	238	129	201	222	12.2±0.5	A	2
46B24L	NS60L	12	45	400	238	129	201	222	12.2±0.5	A	1
55B24R	NX100-56	12	45	400	238	129	201	222	12.2±0.5	A	2
55B24L	NX100-56L	12	45	400	238	129	201	222	12.2±0.5	A	1
48D26R	N50	12	50	460	259	172	203	225	15.9±0.5	A	2
48D26L	N50L	12	50	460	259	172	203	225	15.9±0.5	A	1
55D26R	N50	12	60	500	259	172	203	225	16.3±0.5	A	2
55D26L	N50ZL	12	60	500	259	172	203	225	15.9±0.5	A	1
65D26R	NS70	12	65	520	259	172	203	225	16.1±0.5	A	2
65D26L	NS70L	12	65	520	259	172	203	225	16.1±0.5	A	1
75D26R		12	65	520	259	172	203	225	16.1±0.5	A	2
75D26L		12	65	520	259	172	203	225	16.1±0.5	A	1
80D26R	NX110-5	12	68	540	259	172	203	225	17.6±0.5	A	2
80D26L	NX110-5L	12	68	540	259	172	203	225	17.6±0.5	A	1
55D23L		12	60	500	230	172	203	225	15.5±0.5	A	1
75D23L		12	65	520	230	172	203	225	16.2±0.5	A	1
65D31R	N70	12	70	560	305	172	203	225	19.6±0.6	A	2
65D31L	N70L	12	70	560	305	172	203	225	19.6±0.6	A	1
75D31R	N70Z	12	75	620	305	172	203	225	20.2±0.6	A	2
75D31L	N70ZL	12	75	620	305	172	203	225	20.2±0.6	A	1
95D31R	NX120-7	12	80	660	305	172	203	225	20.8±0.6	A	2
95D31L	NX120-7L	12	80	660	305	172	203	225	20.8±0.6	A	1
105D31R	N100A	12	95	720	409	174	207	229	25.4±0.6	A	2
95E41R	N100	12	100	800	409	174	207	229	26.2±0.6	A	2
105E41R	N100Z	12	105	800	409	174	207	229	26.9±0.6	A	2
Truck Battery											
	N120A	12	110	850	509	185	196	217	30.3±0.8	A	4
115F51	N120	12	120	900	509	185	196	217	31.0±0.8	A	4
135G51	N135	12	135	950	509	185	196	217	31.6±0.8	A	4
145G51	N150	12	150	1000	510	216	196	217	36.2±0.8	A	4
	N165	12	165	1050	510	216	196	217	37.4±0.8	A	4
	N70	12	170	1050	510	216	196	217	38.5±0.8	A	4
180H52	N180	12	180	1100	510	216	196	217	39.2±0.8	A	4
190H51	N200	12	200	1220	508	260	205	227	49.5±0.5	A	4
DIN Standard											
L2400	DIN45	12	45	400	241	174	190	190	12.9±0.5	A	1
	DIN50	12	50	420	241	174	190	190	13.5±0.5	A	1
	DIN55	12	55	450	241	174	190	190	14.2±0.5	A	1
	DIN62	12	62	520	241	174	190	190	14.8±0.5	A	1
58012	DIN66	12	66	530	277	174	190	190	16.0±0.5	A	1
	DIN70	12	72	600	277	174	190	190	16.6±0.5	A	1
	DIN75	12	75	620	277	174	190	190	17.2±0.5	A	1
	DIN80	12	80	680	277	174	190	190	17.8±0.5	A	1
57117	DIN71	12	71	550	277	174	175	175	16.4±0.5	A	1
28827	DIN88	12	88	680	353	174	190	190	21.5±0.6	A	1
	DIN100	12	90	700	353	174	190	190	22.8±0.6	A	1
58043	DIN80	12	80	600	315	174	190	190	19.0±0.6	A	1
BCI Standard											
58500		12	48	460	239	173	157	159	12.6±0.5	A	2
		12	45	420	239	173	157	179	12.0±0.5	A	2
85550		12	55	480	230	172	182	203	13.9±0.5	A	2

**Notice:**

Layout 1	Layout 2	Layout 3	Layout 4	Layout 5	Terminal	A (Standard)	B (Small)
					Positive Terminal		
					Negative Terminal		

## DISTRIBUTION NETWORK

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