



PRODUCT CATALOG 2026

Professional Lithium Battery Manufacturer

-  Li-Polymer Battery
-  Cylindrical Batter Pack
-  Sodium Ion
-  LiFePO4 Battery
-  Custom Battery Pack



Powering Your Innovation



High Safety
Multi-protection
Intelligent BMS



Long Cycle Life
6000+ Cycles
Reliable & Durable



Stable Performance
High Energy Density
Consistent Output



Custom Solutions
OEM/ODM Service
Support Customize



Global Service
Fast Delivery
Worldwide Support



www.krlbattery.com



GLOBAL MARKET

POWERING PARTNERSHIPS, ENERGIZING THE WORLD

For over 20 years, KRL Battery has been dedicated to developing and manufacturing high-quality lithium battery solutions for customers worldwide

Our products are trusted by OEMs, distributors, and brand owners in **more than 50 countries and regions**, serving industries including medical devices, smart electronics, IoT, robotics, drones, energy storage, security systems, and electric mobility

With advanced automated production lines, strict quality management, and an experienced R&D team, we provide reliable Li-Polymer batteries, 18650/21700 cells, LiFePO4 batteries, and **customized battery packs** tailored to meet diverse application requirements.

From product design and engineering support to mass production and global delivery, KRL Batterys committed to helping customers bring innovative products to market with safe, reliable, and high-performance power solutions.

Your Trusted OEM & ODM Lithium Battery Manufacturing Partner.

OUR GLOBAL PARTNERS

Walmart

PHILIPS
飞利浦

CHANGHONG 长虹



CHAMPION ASIA
骏亚科技
CHAMPION ASIA TECH

SAMSUNG SDI

深圳斯诺
SINLUO



breo
倍轻松



赣锋锂业
Ganfeng Lithium

中国乐凯
中国航天

EVE 亿纬锂能

科恒股份



当升科技
DASHPING



GLOBAL PRESENCE
Serving customers in
over 50 countries.



TRUSTED PARTNERSHIPS
Building long-term, win-win
relationships worldwide.



PREMIUM QUALITY
Delivering reliable and safe
battery solutions globally.



SUSTAINABLE FUTURE
Driving the global energy transition
for a greener tomorrow.



CUSTOMER FIRST
Your success is
our greatest value.

OUR GLOBAL FOOTPRINT



Ultimate Customization Lithium ion battery

- 28+ R&D Staff | Exclusive Custom Support
- Shape, Voltage, Capacity, BMS & Connector Customization
- Free Design in 12H | Samples in 5-10 Days
- 500K Daily Output, Full Quality Traceability
- Low MOQ 100+, Small Batch Custom Available



Shape customization



Capacity customization



BMS customization



Connector customization



PROFESSIONAL R&D TEAM

28+ experienced engineers provide strong technical support.



PREMIUM QUALITY

Rigorous quality control ensures safe, reliable and stable performance.



HIGH CAPACITY

500K daily output with advanced automated production lines.



FAST DELIVERY

Free design in 12H, samples in 5-10 days, fast mass production.



GLOBAL SERVICE

Serving customers in 50+ countries and regions worldwide.



PROFESSIONAL LITHIUM BATTERY SOLUTIONS

Powering Your Innovation

- Low temperature (-40 °C discharge) and High temperature (80 °C for 7 days storage) performance.
- High voltage and high energy density.
- High safety and high energy density (>600Wh/L). Extended cycle life (>500cycles).
- Battery thickness range: 0.8mm~12.00mm.
- Battery capacity range: 55mAh ~ 10000mAh.



High-Quality Cell Materials

Premium raw materials for stable and reliable performance.



Quality Silicone Wire

Flexible, durable, and safe for long-term use.



Reliable Protection Solution

Protection board for overcharge, overdischarge, and short circuit.



Stable Electrical Connection

Firm and consistent connection for better safety and reliability.



Multiple Connector Options

Various connectors available to meet different application needs.

CONNECTOR OPTIONS

KRL Battery provides a wide range of connector solutions to meet different application needs. All connectors are selected for high reliability, low resistance and secure connections.



COMMON CONNECTOR TYPES

PIN CONNECTORS



PH Series XH Series VH Series

JST CONNECTORS



JST-PH JST-XH JST-VH JST-SM

MOLEX CONNECTORS



Molex 51021 Molex 5264 Molex 5557

BULLET CONNECTORS



2.0mm 3.5mm 4.0mm

XT CONNECTORS



XT30 XT60 XT90

ANDERSON CONNECTORS



SB50 SB75 SB120 SB175

RING TERMINALS



M3 M4 M5 M6

CUSTOM CONNECTORS



We support custom connector with wire harness and specific pin configurations.

FEATURES



HIGH RELIABILITY

Secure connections with low contact resistance.



HIGH TEMPERATURE RESISTANCE

Materials rated for high temperature applications.



SAFE & SECURE

Anti-spark, anti-vibration design for safe use.



EASY INSTALLATION

User-friendly design for quick and easy assembly.



CUSTOM SOLUTIONS

Support OEM/ODM custom connector solutions.

 Note: More connector types and customized options are available. Please contact our sales team for more information.

21700 BATTERY

KRL 21700 lithium-ion batteries offer higher capacity, higher energy output and enhanced performance for demanding applications.

SPECIFICATIONS

Model	KRL 21700
Nominal Voltage	3.7V
Nominal Capacity	4000mAh ~ 6000mAh
Charging Voltage	4.2V
Standard Charge	0.5C
Max. Charge Current	1C
Standard Discharge	0.5C
Max. Continuous Discharge Current	3C ~ 15C
Cycle Life	≥ 800 cycles
Operating Temperature (Charge)	0°C ~ 45°C
Operating Temperature (Discharge)	-20°C ~ 60°C
Storage Temperature	-20°C ~ 45°C
Dimension	Ø21.5 x 70.0mm
Weight	70g (approx.)

APPLICATIONS



Car Vacuum Cleaners



High Power Fans



Portable Power Stations



Cordless Floor Cleaners



E-Bike



4000 – 6000mAh
Standard & High Rate Options



High Safety



Long Cycle Life



Stable Performance



Custom Solutions



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18650 BATTERY

High performance lithium-ion cells delivering reliable power for a wide range of applications.

SPECIFICATIONS

Nominal Voltage	3.7V
Nominal Capacity	1500mAh ~ 3500mAh
Charging Voltage	4.2V
Standard Charge	0.5C
Max. Charge Current	1C
Standard Discharge	0.5C
Max. Continuous Discharge Current	1C ~ 20C
Cycle Life	≥ 500 cycles
Operating Temperature (Charge)	0°C ~ 45°C
Operating Temperature (Discharge)	-20°C ~ 60°C
Dimension	Ø18.2 × 65.0mm
Weight	45g (approx.)

APPLICATIONS



1500-3500mAh
Standard & High Rate Options



High Safety



Long Cycle Life



Stable Performance



Custom Solutions



www.krlbattery.com

ROBOT VACUUM BATTERY PACK

KRL robot vacuum battery packs deliver reliable power, long runtime and stable performance for intelligent cleaning equipment. Designed with high-quality 18650 lithium-ion cells and advanced BMS protection.

SPECIFICATIONS

Battery Type	Li-ion Battery Pack
Cell Configuration	4S2P
Cell Type	18650
Nominal Voltage	14.4V
Typical Capacity	5200mAh
Minimum Capacity	4800mAh
Charge Voltage	16.8V
Standard Charge	0.2C
Max. Charge Current	3A
Standard Discharge	0.2C
Max. Discharge Current	10A
Operating Temperature (Charge)	0 ~ 50°C
Operating Temperature (Discharge)	-20 ~ 60°C
Dimension	≤42 × 38 × 143mm
Weight	Approx.390g



14.4V | **5200mAh**
Reliable Power for Smart Cleaning

10C

High-rate
Discharge

25%

Higher Output
Power



High Energy
Density



Smart BMS
& Fast Charging



>500
Cycle Life



High Safety



Long Cycle Life



Stable Performance



Custom Solutions



www.krlbattery.com

Customized 18650/21700 Lithium-ion Battery Pack

- ✓ 24h One-on-One Custom Service
- ✓ Custom shape, voltage, capacity, BMS & connector
- ✓ 12h battery design, 5-10 days sample delivery
- ✓ Full inspection with COA report
- ✓ Application scenarios: Wireless audio + smart wearables + portable medical devices + smart home + beauty appliances + drones + automotive electronics + entertainment / toys + industrial special application fields



CUSTOM SOLUTIONS
OEM & ODM solutions for
different applications



PREMIUM QUALITY
Strict quality control
to ensure reliability



FAST DELIVERY
12h design, 5-10 days
sample delivery



GLOBAL SUPPORT
Professional service
and fast response

SMART RING

Li-POLYMER BATTERY

Ultra-Thin Curved Power for Next-Generation Wearables

Leading supplier of curved micro LiPo batteries for smart rings.

Featuring **2026 Silicon-Carbon** anode technology for

30% higher capacity and E-stacked safety.

ISO-certified for quality and reliability.

PRODUCT ADVANTAGE

-  Cell thickness as thin as 0.8mm; curved cells can bend up to 120°, compatible with a variety of micro-device
-  Supports 500 cycles of 0.5C charge -discharge, with 80% capacity retention.
-  Superior safety performance, operating temperature range: -20°C to 80°C.
-  Flexibly compatible with wearable devices, medical sensing applications etc.





36V 20Ah

LITHIUM BATTERY PACK

Customized Power Solution for Electric Lawn Mower

SPECIFICATIONS

Battery Type	Lithium Battery Pack
Nominal Voltage	36V
Typical Capacity	20Ah
Minimum Capacity	19.8Ah
Cell Model	40135 20Ah
BMS	12S 40A
Communication	CAN
Connector	XT60 + 1.25-2P Signal Wire
Charge Full Voltage	43.8V
Discharge Cut-off Voltage	30V
Max. Charge Current	1.0C
Max. Discharge Current	2.0C
Charge Temperature	0°C ~ 55°C
Discharge Temperature	-20°C ~ 60°C
Dimensions	145 × ≤148 × ≤188 mm
Cycle Life	≥4000 Cycles



High Power Output

Stable power for lawn mowing



Long Runtime

20Ah capacity for extended use



Smart BMS Protection

Multiple safety protections



Durable Metal Housing

Built for outdoor use



High Safety



Long Cycle Life



Stable Performance



Custom Solutions



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SODIUM-ION BATTERY PACK

Reliable Power in Extreme Cold Environments

Designed for Outdoor Energy Storage & Industrial Applications

SPECIFICATIONS

Battery Type	Sodium-ion Battery Pack
Cell Configuration	4S2P
Nominal Voltage	12V
Typical Capacity	20Ah
Minimum Capacity	19Ah
Charge Full Voltage	15.6V
Discharge Cut-off Voltage	6.0V
Max. Charge Current	10A
Max. Discharge Current	10A
Charge Temperature	-20°C ~ 75°C
Discharge Temperature	-40°C ~ 75°C
Dimensions (L×W×H)	200 × 160 × 80 mm
Weight	Approx. 3.0 kg
Communication	RS485
Connector	XT90 (2+2)

APPLICATIONS



Outdoor Smart Locker



Telecom Backup System



Cold Storage Monitoring



Solar Energy Storage



AGV & Robotics



High Safety
Stable & Reliable



Excellent Low
Temperature
Performance
-40°C to 75°C



Long Cycle Life
≥2000 Cycles



Eco-friendly
Sustainable
Solution

12V | 20Ah
Stable Power for Extreme Conditions



Stable Performance



Long Cycle Life



Stable Performance



Custom Solutions



www.krlbattery.com

1008Wh Portable Power Station

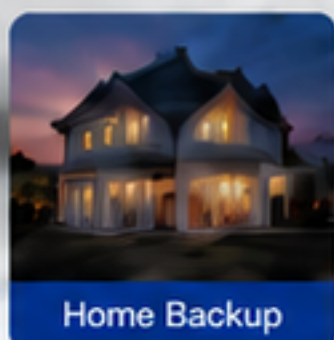
1500W Outdoor Energy Solution



WIDE APPLICATIONS



Outdoor Camping



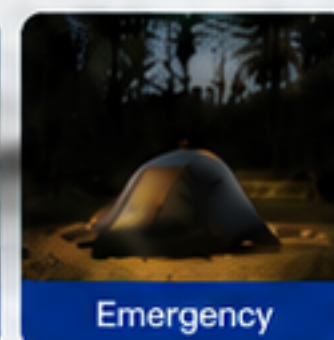
Home Backup



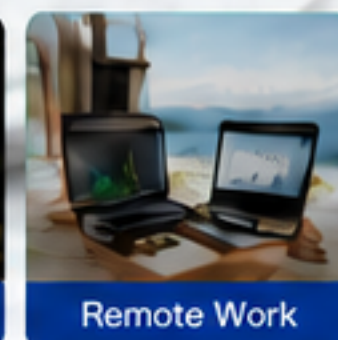
RV / Van Life



Fishing



Emergency



Remote Work

SPECIFICATIONS

 Cell Spec	32140 Cylindrical LiFePo4 High-Capacity Battery (7S)
 Cell Capacity	1008 Wh
 USB Output	1 port of QC 18W, 2 port of 5V 2.4A
 Type-C Output	1 port of PD 65W, 2 port of 5V 2.4A
 AC Output	1200W/1500W
 DC Output	12V/10A, 100W
 DC Input	20V/5A, 100W
 MPPT Solar Controller	12-60V, 500W
 LED Light	2W



SPECIFICATIONS

 Cell Spec	32140 Cylindrical LiFePo4 High-Capacity Battery (7S)
 Cell Capacity	2016 Wh
 USB Output	1 port of QC 18W, 2 port of 5V 2.4A
 Type-C Output	1 port of PD 100W, 2 port of 5V 2.4A
 AC Output	2000W
 DC Output	12V/10A, 100W
 DC Input	12V/5A, 100W
 MPPT Solar Controller	12-60V, 500W
 LED Light	2W



2016Wh Portable Power Station

2000W Outdoor Energy Solution



WIDE APPLICATIONS



Outdoor Camping



Home Backup



RV / Van Life



Fishing



Emergency



Remote Work

493Wh Portable Power Station

600W Outdoor Energy Solution

- 

High Safety
LiFePO4 / NCM
- 

Long Cycle Life
More than 2000+
- 

High Capacity
493Wh
- 

Pure Sine Wave
AC Output
- 

Multiple Protection
BMS System



WIDE APPLICATIONS



SPECIFICATIONS

 Cell Spec	Ternary Lithium Battery (6S) or Lithium Iron Phosphate Battery (7S)
 Cell Capacity	493Wh
 USB Output	1 port of QC 18W, 1 port of 5V 2.4A
 Type-C Output	1 port of PD 65W
 AC Output	600W (Pure Sine Wave)
 DC Output	13V/8A, 100W
 DC Input	20V/5A, 100W
 MPPT Solar Controller	12-30V, 100W
 LED Light	2W



SPECIFICATIONS

 Cell Spec	Lithium Iron Phosphate Battery (4S)
 Cell Capacity	256 Wh
 USB Output	1 port of QC 18W, 1 port of 5V 2.4A
 Type-C Output	1 port of PD 30W
 DC Output	13V/8A, 100W
 DC Input	20V/3.2A, 65W
 MPPT Solar Controller	12-30V, 100W
 LED Light	2W



256Wh Portable Power Station

300W Outdoor Energy Solution



WIDE APPLICATIONS



Outdoor Camping



Home Backup



RV / Van Life



Fishing



Emergency



Remote Work

LFP CELL SERIES

LITHIUM IRON PHOSPHATE CELL

Optimized for High Safety & Long Life Energy Storage Systems

KRL LFP cells deliver stable performance, high safety and long cycle life for a wide range of energy storage applications.

Grade A cells with QR code for full traceability and quality assurance.



PRODUCT FEATURES

-  **HIGH SAFETY**
LiFePO₄ chemistry provides excellent thermal stability and safety performance.
-  **LONG CYCLE LIFE**
≥ 4000 cycles @ 80% DOD, designed for long-term reliability.
-  **STABLE PERFORMANCE**
Consistent output and low internal resistance ensure high efficiency and power.
-  **ECO-FRIENDLY**
Non-toxic, non-polluting, and environmentally friendly.
-  **GRADE A QUALITY**
100% capacity grading and QR code traceability for every cell.

COMPLIMENTARY ACCESSORIES

1 Cell – 1 Busbar, 2 Bolts, 1 Insulation



APPLICATIONS

-  Consumer Electronics
-  Uninterruptible Power Supplies
-  Solar Energy Storage Systems
-  Golf Carts, Electric Bicycles / Scooters / Vehicles
-  Electric Power Systems
-  Home Appliances

WHY CHOOSE KRL LFP CELLS?

-  **HIGH SAFETY**
Advanced LiFePO₄ chemistry ensures maximum safety.
-  **LONG LIFE**
≥ 4000 cycles @ 80% DOD for lower total cost.
-  **HIGH EFFICIENCY**
Low internal resistance for better performance.
-  **FLEXIBLE SOLUTIONS**
Multiple capacities and configurations available.
-  **QUALITY ASSURANCE**
Grade A cells with QR code for full traceability.

LFP CELL SERIES

RELIABLE POWER FOR ENERGY STORAGE SYSTEMS

KRL LFP cells deliver high safety, long cycle life and stable performance for a wide range of energy storage applications.



Model	LF100LA	LF105	LF125	LF150	LF230
Nominal Capacity	100Ah	105Ah	125Ah	150Ah	230Ah
Cathode Materials	LiFePO4				
Brand Name	EVE				
Nominal Voltage	3.2V				
Initial IR	0.5mΩ	0.32mΩ	0.4mΩ	0.4mΩ	0.25mΩ
Weight	1.98Kg	1.98Kg	2.4Kg	2.8Kg	4.2Kg
Charging Cut-off Voltage	3.65V				
Discharging Cut-off Voltage	2.5V T > 0℃ 2.0V T ≤ 0℃				
Charging Temperature	0-60℃				
Discharging Temperature	-30-60℃				
Storage Temperature	0-35℃				
Cycle Life	5000 cycles	4000 cycles	4000 cycles	4000 cycles	4000 cycles
Standard Charging Power	0.5P				
Standard Discharging Power	0.5P				
Height(H) with terminal	160.0-50.1-118.5mm	130.3-36.3-200.5mm	200.7-33.2-172.0mm	200.7-33.2-207.0mm	173.9-53.8-207.2mm