CoinCell
Battery Solutions

Safer, more stable, more durable

Catalogue

1. Main Products

- Rechargeable Li-ion Coin Cells
- Primary Coin Cells CR/SR
- Primary Cylindrical battery
- Li-Polymer Batteries
- Li-ion Cylindrical Batteries
- Custom Battery Pack
- Smart Battery Pack

2.1 Applications – Medical device

- CGM
- Glucose Monitoring
- Insulin Pumps
- Insulin Pen
- Auto Injector
- Smart Pill
- Infusion Pump
- Blood Pressure Monitor
- Sleep Apnea
- Smart Inhaler
- Pulse Meters
- Hearing Aid
- Dental Appliances
- Holter Monitor ECG EEG
- Fitness Trackers
- Smart Baby Monitoring
- Digital Thermometers
- Fall Detection System
- MedEl
- Fetal Heart Rate Monitor
- Portable Handheld Ultrasound
- Multi-parameter Monitors
- CPR
- RPM
- Defibrillators AEDs
- Heart Pumps (LVADs, HVADs)
- X-Ray Equipment
- Mobile Workstations Computing Carts
- Surgical Tools
- Robotics
- E-mobility (Electric Wheelchairs)
- Portable Oxygen Concentrators
- Ventilation Equipment
- PAPP CPAP Devices
- Pulse Oximetry Devices
- Feeding Pumps

2.2 Applications – IoT

- Tracking Systems
- Intelligent Keys
- Smart Meter
- Secruity System

3. Key Features

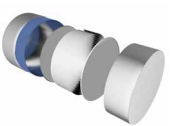
• Leading R&D and be long-term strategic partnership with customers. Provide leading products on safety and performances.

• Qualified by worldwide top brand customers. Excellent quality records.

• Fully automated process. Capability of 2.5mm slitting and winding fully automation.

• MES covers full-process traceability including all quality data, materials, equipment, and key operators.

• All standard products patents, UL, IEC, UN38.3

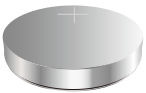


4.1 Rechargeable Li-ion Coin Cells

- Diameter: 5.8~14.0 mm
- Height: 4.0~10 mm
- Fast Charge: Up to 4C
- High energy density
- Long cycle life
- UL, IEC, UN
- Fully automatic production lines
- Highly precise production

PN	Diameter (mm)	Height (mm)	Norminal Voltage (V)	Typical Capacity (mAh)	Min. Capacity (mAh)	Max Charging Rate C
M5853S1	5.90	5.40	3.70	13.0	12.0	1
M7840S3	7.90	4.10	3.73	19.5	17.5	1
M7854S1	7.90	5.50	3.70	25.0	23.0	1
M7886S1	7.85	8.60	3.85	53.0	50.0	2
M9440S1	9.50	4.00	3.80	25.0	23.0	1
M9450S1	9.40	5.00	3.85	33.0	31.0	2
M1040S3	10.10	4.20	3.85	39.0	37.0	3
M1045S1	10.10	4.60	3.85	43.0	40.0	2
M1054S3	10.20	5.60	3.85	48.0	45.0	3
M1140S3	11.20	4.25	3.85	49.0	46.0	2
M1154S3	11.00	5.50	3.85	57.0	54.0	4
M1254S4	12.20	5.60	3.85	75.0	72.0	2
M1260X2	12.20	6.00	3.90	102.0	97.0	2
M1454S2	14.10	5.60	3.85	105.0	100.0	2

4.2 Primary Coin Cells — CR (Li-MnO_2)



- Diameter: 9.0~32.0 mm;
- Height: 1.6~7.7mm
- High energy density
- Up to 10 years storage
- UL, IEC, UN
- Fully automatic production lines
- Highly precise production

PN	Diameter mm	Height mm	Norminal Voltage V	Capacity mAh	Discharge Current mA	Max continue discharge current mA	Max pulse current mA	Weight g
CR920	9.5	2.0	3	20	0.1	2	5	0.55
CR927	9.5	2.7	3	28	0.1	2	5	0.60
CR1025	10.0	2.5	3	30	0.1	2	5	0.70
CR1216	12.5	1.6	3	25	0.1	2	5	0.70
CR1220	12.5	2.0	3	38	0.1	2	5	0.80
CR1225	12.5	2.5	3	50	0.1	2	5	0.90
CR1616	16.0	1.6	3	50	0.1	3	8	1.20
CR1620	16.0	2.0	3	70	0.1	3	8	1.30
CR1632	16.0	3.2	3	120	0.1	3	8	2.00
CR2016	20.0	1.6	3	80	0.1	5	15	2.00
CR2025	20.0	2.5	3	150	0.2	5	15	2.60
CR2032	20.0	3.2	3	220	0.2	5	15	3.20
CR2320	23.0	2.0	3	130	0.2	6	20	3.00
CR2325	23.0	2.5	3	190	0.2	6	20	3.30

4.3 Primary Coin Cells — CR (Li-MnO_2)

- Diameter: 9.0~32.0 mm;
- Height: 1.6~7.7mm
- High energy density
- Up to 10 years storage

PN	Diameter mm	Height mm	Norminal Voltage V	Capacity mAh	Discharge Current mA	Max continue discharge current mA	Max pulse current mA	Weight g
CR2330	23.0	3.0	3	260	0.2	6	20	4.0
CR2335	23.0	3.5	3	300	0.2	6	20	4.3
CR2354	23.0	5.4	3	560	0.4	6	19	6.9
CR2430	24.5	3.0	3	270	0.2	8	25	4.5
CR2450	24.5	5.0	3	600	0.4	8	25	6.8
CR2477	24.5	7.7	3	1000	0.6	8	25	10.5
CR3032	30.0	3.0	3	500	0.4	10	30	6.8
CR1220-T	12.5	2.0	3	38	0.1	2	5	0.8
CR1632-T	16.0	3.2	3	120	0.1	3	8	2.0
CR2032-T	20.0	3.2	3	220	0.2	5	15	3.2
CR2450-T	24.5	5.2	3	600	0.4	8	25	6.8
CR2477-T	24.5	7.7	3	950	0.5	8	25	10.5
CR2032-HT	20.0	3.2	3	200	0.2	5	15	3.2
CR2032 PX	20.0	3.2	3	260	0.2	6	18	3.2

4.4 Primary Coin Cells — SR

- Diameter:
  5.8~11.5mm
- Height:
  2.15~5.4mm
- Highest leakage resistance
- Constant voltage level
- Low self-discharge rate
- Fully automatic production lines
- Highly precise production

PN	Diameter (mm)	Height (mm)	Nominal Voltage (V)	Typical Capacity (mAh)	Weight g
SR521H	5.80	2.15	1.55	10	0.28
SR626H	6.76	2.60	1.55	20	0.28
SR621H	6.76	2.25	1.55	13	0.28
SR721H	7.86	2.18	1.55	20	0.41
SR726H	7.87	2.60	1.55	28	0.47
SR736H	7.85	3.60	1.55	45	0.65
SR754H	7.90	5.40	1.55	60	1.03
SR921H	9.41	2.15	1.55	40	0.60
SR926H	9.42	2.60	1.55	42	0.75
SR936H	9.42	3.60	1.55	50	1.00
SR1121H	11.55	2.20	1.55	45	0.90
SR1131H	11.55	3.17	1.55	90	1.30
SR1142H	11.55	4.20	1.55	110	1.80
SR1154H	11.55	5.40	1.55	160	1.95

4.5 Primary Cylindrical battery — CR

PN	Norminal Voltage	Cut off voltage	Size mm	Capacity mAh	Weight g	Max continous discharge current mA
CR2	3.0V	2V	Φ15.6*H27.0	850	11.0	800
CR123A	3.0V	2V	Φ17*H34.5	1500	17.0	1000
CR-P2	6.0V	4V	35x19.5x36.0	1500	42.0	1000
CR14250H	3.0V	2V	Φ14.5×H25.2	950	11.5	7
CR17450E	3.0V	2V	Φ17.0×H45.5	2400	24.0	1000
CR26500E	3.0V	2V	Φ26.2×H50.5	5000	55.0	1500
CR34615E	3.0V	2V	Φ34.0×H61.5	12000	125.0	2000

- Diameter: 14.5~34.0 mm
- Height: 25.2~61.5 mm
- High and stable operating voltage
- High energy density
- Long lifespans
- Low self-discharge rate

4.6 Primary Cylindrical battery — ER (Li-SOCl₂)

PN	Norminal Voltage	Cut off voltage	Size mm	Capacity mAh	Weight g	Max continous discharge current mA
ER14250H	3.6V	2V	Φ14.5*H25.4	1200	10	25
ER14335H	3.6V	2V	Φ14.5*H33.5	1650	13	40
ER14505H	3.6V	2V	Φ14.5*H50.5	2600	13	50
ER17505H	3.6V	2V	Φ17.0*H50.5	3600	27	70
ER18505H	3.6V	2V	Φ18.0*H50.5	4100	30	70
ER261020	3.6V	2V	Φ26.2*H102.0	16000	95	150
ER26500H	3.6V	2V	Φ26.2×H50.0	9000	53	100
ER341245	3.6V	2V	Φ33.5*H124.5	36000	200	300
ER34615H	3.6V	2V	Φ34.2×H61.5	19000	103	150
ER14250H+SPC1520	3.6V	2V	Φ16.5xH47.0	1200	20	2000
ER26500H+SPC1520	3.6V	2V	Φ29.0xH67.0	8500	61	2000
ER34615H+SPC1520	3.6V	2V	Φ34.0xH78.0	19000	111	2000
ER34615H+SPC1550	3.6V	2V	64.0x50.0*35.0	19000	125	2000

- Diameter: 14.5~34.2 mm
- Height: 25.2~124.5 mm mm
- High and stable operating voltage
- High energy density
- Long lifespans
- Low self-discharge rate

4.7 Li-Polymer Batteries

- 1000 + existing tooling sizes
- High safety
- Multi-chemistry options: LCO, NCM, LFP
- 5-10C fast charge
- 10-15C fast discharge
- Customized available

4.8 Li-ion Cylindrical Batteries

- Smallest diameter 5mm
- High C rate charge 8C
- High energy density
- Long cycle life
- Highly safety

4.9 Custom Battery Pack

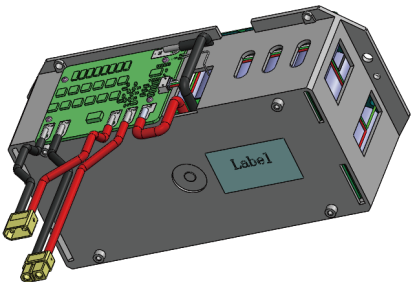
- BMS design,
- 3D case design
- Water proof

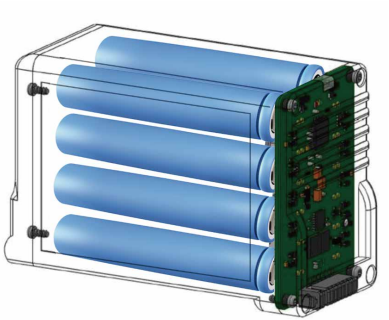
- Cycle life : UP to 1000 cycles

- Customized available

- Can develop with CAN, I²C, 485 and other communi-cation protocols and BMS of TI chips.

4.10 Smart Battery Pack





- Flexibility in design
- Low self-consuming current
- Long cycle life
- Highly safety
- Strong software/hardware and plastic case/mold design strength

- Can add PCM or BMS
- Can develop with CAN, I²C, 485 and other communication protocols and BMS of TI chips.

5. Certificate

UN38.3

ISO 9001

ISO 45001

ISO 13485

6.1 Application Study — CGM

Continuous glucose monitors (CGMs) were developed for people with diabetes to help them monitor and manage changes in blood sugar levels.

Battery Solutions

Primary Coin Battery	CR920, CR927, CR1220, SR721
Rechargeable Coin Battery	1040, 1154, 1254
Lithium Polymer Battery	301316, 301214, 281215

Battery Advantages:

- Good Consistency
- CR battery storage life 10 + years
- Highly automated production equipment
- Standard battery has certificates of UL, IEC62133, UN

6.2 Application Study — Insulin Pump

Insulin pump is a wearable medical device that supplies a continuous flow of rapid-acting insulin underneath your skin.

Battery Solutions

Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage
Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing
Lithium Polymer Battery	• Flexibility in design • High discharge rate current • Low self-consuming current • Long cycle life • Highly safety • LiCoO2, LiFePO4, LiMnO2 • Rechargeable & Primary

6.3 Application Study — Insulin Pen

Smart insulin pens are reusable devices that automatically record when a person has injected insulin, including how much has been injected and at what time of the day.

Battery Solutions

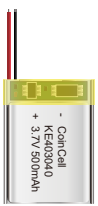
Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage
Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing
Lithium Polymer Battery	• Flexibility in design • High discharge rate current • Low self-consuming current • Long cycle life • Highly safety • LiCoO2, LiFePO4, LiMnO2 • Rechargeable & Primary

6.4 Application Study — Blood Pressure Monitor

A device for measuring blood pressure, consisting of a part that goes around the arm and fills with air, attached to a part that reads and shows the measurement

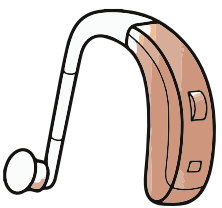
Battery Solutions

Rechargeable Cylindrical Battery	• Diameter:5.0~21.0 mm • Height:10~70 mm • High energy density • Long cycle life
Lithium Polymer Battery	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety • LiCoO2, LiFePO4 • 5-10C fast charge • 10-15C fast discharge



6.5 Application Study — Hearing Aid

A hearing aid is a device designed to improve hearing by making sound audible to a person with hearing loss.



Battery Solutions

Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing • Can add wire/tab

6.6 Application Study — Smart Pill

A pill containing a small camera used to record internal images of the gastrointestinal tract for use in medical diagnosis

Battery Solutions

Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing • Can add wire/tab
Primary Coin Battery	• Diameter: 5.8~11.5mm • Height: 2.15~5.4mm • High energy density • Up to 10 years storage

6.7 Application Study — Smart Inhaler

A smart inhaler is an inhaler are built with sensor technology that helps record data about the time and date of use, and the location of the patient at each use.

Battery Solutions

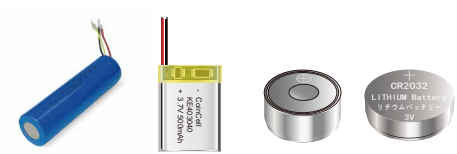
Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10mm
Lithium Polymer Battery	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety
Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage

6.8 Application Study — Holter Monitor ECG

A Holter monitor is a type of portable electrocardiogram (ECG). It records the electrical activity of the heart over 24 hours or longer while you are away from your healthcare provider's office.

Battery Solutions

Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm
Lithium ion Battery	• Flexibility in design • Low Self-consuming current • Long cycle life • Highly safety
Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage



6.9 Application Study — Portable Ultrasounds

Portable ultrasound is a modality of medical ultrasonography that utilizes small and light devices. Carried by hand and operated for a time on battery power alone.

Battery Solutions

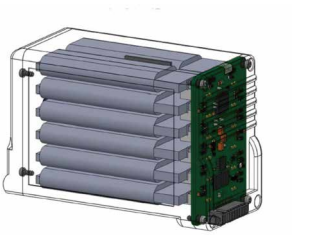
Lithium Polymer Battery	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety • LiCoO2, LiFePO4 • 5-10C fast charge • 10-15C fast discharge

6.10 Application Study — X-Ray Equipment

Portable generator that delivers the powerful X-ray beam needed for exceptional image quality while offering the full flexibility of use inherent to a mobile device

Battery Solutions

Li-ion Battery Pack	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety • Can add PCM or BMS • Can develop with CAN, I²C, 485 and other communication protocols and BMS of TI chips.



6.11 Application Study — Surgical Tools

Medical device used to create holes in bone

Battery Solutions

Li-ion Battery Pack	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety • Strong software/hardware and plastic case/mold design strength • Can add PCM or BMS • Can develop with CAN, I²C, 485 and other communication protocols and BMS of TI chips.

6.12 Application Study — Electric Wheelchairs

Electric wheelchairs or power chairs, are designed for people who lack the motor function or cardiovascular strength to operate a manual wheelchair.

Battery Solutions

Li-ion Battery Pack	• Flexibility in design • Low Self-consuming current • Long cycle life • Highly safety * Strong software/hardware and plastic case/mold design strength • Can add PCM or BMS • Can develop with CAN, I²C, 485 and other communication protocols and BMS of TI chips.

6.13 Application Study — CPR

CPR – or Cardiopulmonary Resuscitation – is an emergency lifesaving procedure performed when the heart stops beating

Battery Solutions

Li-ion Battery Pack	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety * Strong software/hardware and plastic case/mold design strength • Can add PCM or BMS • Can develop with CAN, I²C, 485 and other communication protocols and BMS of TI chips.

6.14 Application Study — FindMy

Find My is an asset tracking service, that enables users to track the location.

Battery Solutions

Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage
Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing

6.15 Application Study — Smart Key

A smart key is an electronic access and authorization system that is available either as standard equipment or an option in several car designs.

Battery Solutions

Primary Coin Battery	• Diameter: 9.0~32.0 mm • Height: 1.6~7.7mm • High energy density • Up to 10 years storage
Rechargeable Coin Battery	• Diameter:5.8~14.0 mm • Height:4.0~10 mm • Fast charge: up to 4C • High energy density • Long cycle life • Water-proofing

6.16 Application Study — Smart Meter

A smart meter is an electronic device that records information—such as consumption of electric energy, voltage levels, current, and power factor

Battery Solutions

Primary Battery	• 3.6V Li-SOCl2 Battery （ER） • 3.0V Li-MnO2 Battery （CR） • ER+SPC • UL, IEC,UN38.3,ATEX • Up to 10 years storage • Safe and reliable • Low self discharge rate

6.17 Application Study — Smart Lock

A smart lock is an electrome-chanical lock that is designed to perform locking and unlocking operations on a door when it receives a prompt via an electronic keypad, biometric sensor, access card, Bluetooth, or Wi-FI from a registered mobile device.

Battery Solutions

Li-ion Battery Pack	• Flexibility in design • Low self-consuming current • Long cycle life • Highly safety
Primary Battery	• 3.6V Li-SOCl2 Battery （ER） • 3.0V Li-MnO2 Battery （CR) • ER+SPC • UL, IEC,UN38.3,ATEX • Up to 10 years storage • Safe and reliable • Low self discharge rate

7. Company Introduction

Production Capability
160 Million pcs

Factory Area
90000 m²

Employees
1000+ employees
300+ engineers

Factory Location
Guangdong
Jiangxi
Vietnam

Founded in 2018, Shenzhen CoinCell Battery Co., Ltd. is a medical battery solution company.

Our batteries are widely used in medical devices such as drug delivery device CGM, insulin pump, insulin pen, autoinjector, hearing aid, intelligent wearable as well as various electronic devices. We are the first one to develop the super small battery with diameter 6mm. With annual output of more than 160million lithium-ion micro batteries at top safety performance & high energy density, factory's production capacity is at first class level.

8. Contact

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