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PKCELL



Lithium Primary Battery Catalog



China's large Lithium
Primary Battery manufacturing
brand enterprises

SHENZHEN PKCELL BATTERY CO.LTD Is one of largest battery manufacturing enterprises
in China for its biggest production



Company Profile

Shenzhen PKCELL BATTERY Co., Ltd (PKCELL BATTERY) is one of the largest battery manufacturing enterprises in China. We have branch offices in USA, Canana, DongGuan, Shenzhen, Wuhan, Changsha & Yongzhou.

We produce Lithium dry batteries such as Li-SOCL2 battery, Li-MnO2 battery & Lithium button cells over 22 years, with CE, ROHS REACH, SGS, IEC, ISO, UL1642, MSDS & UN38.3 certificates.



Company Advantage

Product Certified



High energy density.



Quality guaranteed.



Fast delivery.



Wide operating temperature range.



Superior shelf life.



Stable operating voltage and loading voltage platform.



Small, medium and high pulse discharge current. Available series like bobbin type, spiral type and battery packs.



Long using life time, it can be used over 10-15 years(Depend on different working request).



Factory Photos



Factory Panorama



Factory Panorama



Production Lines



Production Lines



Production Lines



Production Equipments



Production Equipments



Production Equipments

BATTERY APPLICATIONS

Battery	Main Size	Application Fields	Applicable Products
Li-SOCL2	ER261020 ER34615 ER26500 ER18505 ER14505 ER14250	Instrumentation	Smart Meters: Water Meter、Flowmeter、Heat Meter、Gas Meter、Electric Meter. Sensors: Air Quality Sensor、Parking Sensor、Tracking Sensor.
		Smart Security	Alamm System、Smart Bin、Smart Lock、Wireless Controller.
		Wisdom Animal Husbandry	Livestock Heat Stress Monitor、Cow Pedometer rigation Facilities
		IOT	Water& NB IOT A、IOT Outdoor Products
Li-MnO2	CR123A CR2	Instrumentation	Smart Meter: Water Meter、Flowmeter、Heat Meter、Gas Meter、Electric Meter
		Smart Security	Walkie-Talkie、Fire Safety Equipment
		Industrial Equipment	Rangefinder、Diving Equipment
		Medical Equipment	Thermomentor、Defibrilators、Oximeter
Li-Fe	FR14505 FR10445	Medical Equipment	Thermostatic Radiator Valve
		Electronic Product	Digital Camera、MP3、MP4
		Lighting Device	Flashlight
			Portable Device

Smart Home



Ocean Equipment



Buoy

Utility Meter



Gas Meter

(LI-SOCI2) Battery

Product Characteristics



- High operating voltage: 3.3V~3.6V
- Wide operating temperature range: -55 ~+85°C
- High energy density: up to 650Wh/kg
- Low self-discharge rate: annual average self-discharge rate is less than 1% in 25°C environment.
- Long storage life: can be stored for 10 years in 25°C environment.

Application Sectors



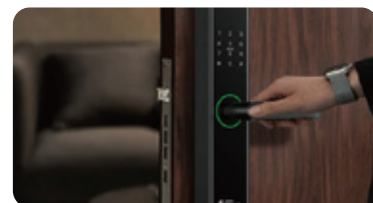
Smart Meter



Smart Parking (Geomagnetic)



Oil drilling



Bluetooth Lock



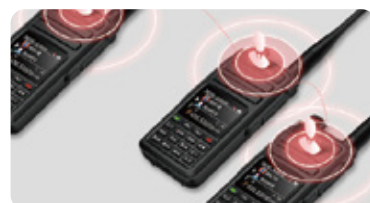
Medical Equipment



Intelligent Security



GPS locator(buoys)



Wireless Communication



Smart Manhole Covers

Li-SOCL2 Battery Energy Type Parameters



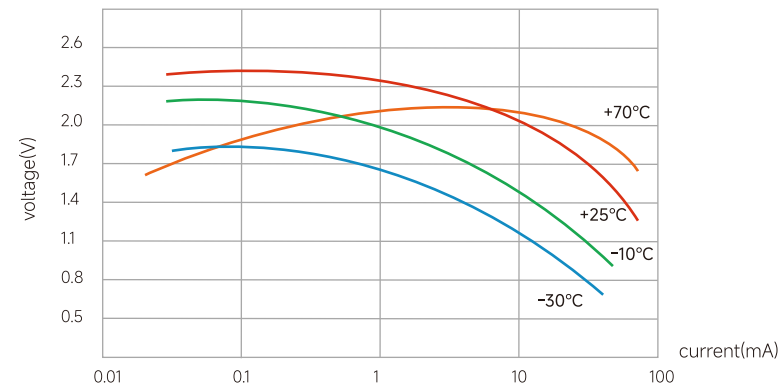
MODEL IEC		NOMINAL VOLTAGE (V)	DIMENSIONS (mm)	DISCHARGE CHARACTERISTICS(23°C)						
				NOMINAL CAPACITY (mAh)	STANDARD CURRENT (mA)	MAX CONTINUOUS DISCHARGE CURRENT (mA)	MAX PULSE DISCHARGE CURRENT (mA)	CUT-OFF VOLTAGE (V)	WEIGHT APPROX (g)	OPERATING TEMPERATURE (°C)
ER10250		3.6	10.0×45.0	400	0.5	5	10	2.0	5.0	-55~+85
ER10450	AAA	3.6	10.5×45.5	800	1.0	25	60	2.0	9.0	-55~+85
ER13150		3.6	13.5×15	450	0.5	10	30	2.0	5.5	-55~+85
ER14250	1/2AA	3.6	14.5×25.5	1200	0.5	20	45	2.0	10.0	-55~+85
ER14335	2/3AA	3.6	14.5×34.5	1650	1.0	75	150	2.0	13.0	-55~+85
ER14505	AA	3.6	14.5×50.5	2400	2.0	100	200	2.0	19.0	-55~+85
ER17335		3.6	17×34	2100	2.0	100	200	2.0	30.0	-55~+85
ER17505		3.6	17×50.5	3400	4.0	120	200	2.0	32.0	-55~+85
ER18505	A	3.6	18.5×50.5	4000	2.0	80	150	2.0	32.0	-55~+85
ER26500	C	3.6	26.5×50.5	9000	3.0	130	300	2.0	55.0	-55~+85
ER34615	D	3.6	34.5×61.5	19000	2.0	200	400	2.0	107.0	-55~+85
ER261020	CC	3.6	26.5×102	16000	3.0	200	400	2.0	100.0	-55~+85
ER341245	DD	3.6	34.2×124.5	35000	10.0	100	500	2.0	220.0	-55~+85
ER9V	9V	10.8	26.5×17.5×48.5	1200	0.5	25	50	6	16.0	-55~+85

Li-SOCL2 Battery Power Type Parameters

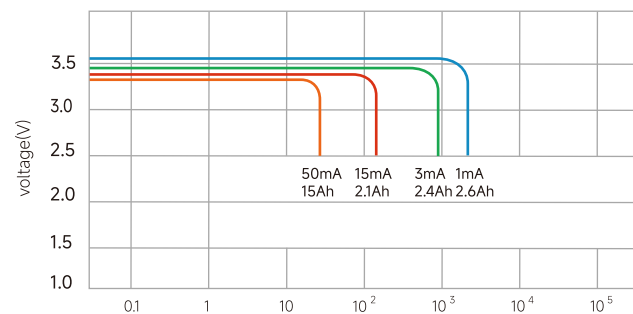


MODEL IEC		NOMINAL VOLTAGE (V)	DIMENSIONS (mm)	DISCHARGE CHARACTERISTICS(23°C)						
				NOMINAL CAPACITY (mAh)	STANDARD CURRENT (mA)	MAX CONTINUOUS DISCHARGE CURRENT (mA)	MAX PULSE DISCHARGE CURRENT (mA)	CUT-OFF VOLTAGE (V)	WEIGHT APPROX (g)	OPERATING TEMPERATURE (°C)
ER14250M	1/2AA	3.6	14.5×25.5	750	4.0	120	250	2.0	10.0	-55~+85
ER14335M	2/3AA	3.6	14.5×34.5	1200	4.0	300	500	2.0	13.0	-55~+85
ER14505M	AA	3.6	14.5×50.5	1800	10.0	500	1000	2.0	19.0	-55~+85
ER17335M		3.6	17.0×34.5	1700	5.0	500	1000	2.0	20.0	-55~+85
ER17505M		3.6	17.0×50.5	2800	10.0	600	1200	2.0	29.0	-55~+85
ER18505M	A	3.6	18.5×50.5	3200	10.0	500	1500	2.0	32.0	-55~+85
ER34615M	C	3.6	26.5×50.5	6500	10.0	1000	2000	2.0	55.0	-55~+85
ER34615M	D	3.6	34.2×61.5	14000	10.0	2000	3000	2.0	106.0	-55~+85
ER261020M	CC	3.6	26.5×102.0	13000	10.0	1000	2500	2.0	100.0	-55~+85

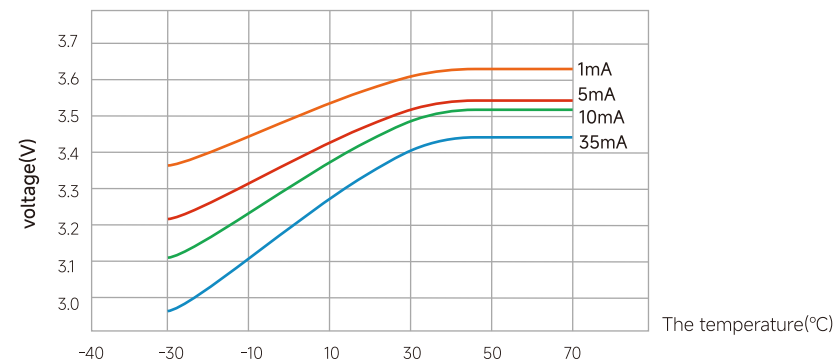
Capacity Curves at Different Current And Temperature Conditions



Discharge Curves Under The Condition Of 23 ± 2°C



Voltage Curves Under Different Temperature And Current Conditions



Composite Capacitor



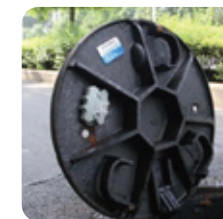
Product Characteristics

- Nominal Voltage:4V
- Cut-off voltage:2.5V
- Temperature range:-40~85°C
- Small size, good sealing, strong versatility
- Parallel connection with lithium-ion battery can enhance the output of battery energy and solve the phenomenon of voltage lag of lithium-ion battery.

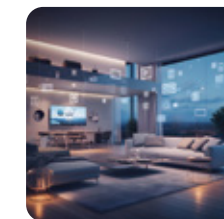
Application Sectors



Intelligent Water and Electricity Meter



Smart Manhole Covers



Smart Home



Smart Lock



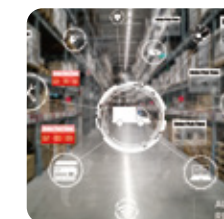
Smart Parking



ETC



Smart Livestock



Intelligent Logistics



Intelligent Security



shared bicycle

Composite capacitor Parameters

MODEL IEC	DIMENSIONS (MM)	NOMINAL VOLTAGE (V)	CUT-OFF VOLTAGE	MAXIMUM DISCHARGE CURRENT(MA)	MAXIMUM PULSE CURRENT (MA)
HPC1520	15.0×20.0	4.0	2.5	500	2000
HPC1530	15.0×30.0	4.0	2.5	750	3000
HPC1550	15.0×50.0	4.0	2.5	2000	5000

Li-SOCL2 Battery+Capacitor



A Perfect IoT Power Solution.

The high-capacity ER battery with the capacitor battery can ensure the battery pack's service life & pulse current capability. It could match the application conditions of long standby & high pulse current of IoT equipments.

Li-SOCL2 Battery+Capacitor Parameters

Model	Nominal Voltage (V)	Nominal Capacity (mAh)	Max. pulse Current (mA)	Size(mm)L*W*H
ER14335M+HPC1520	3.6	2700	2000	55*33*16.5
ER14505M+HPC1530	3.6	4000	3000	55*37*20
ER17335M+HPC1550	3.6	19000	5000	64*53*35.5
ER17505M+LIC0813	3.6	800	500	50*22*50
ER18505M+LIC0820	3.6	1200	1000	29*26.5*16.5
ER34615M+LIC1020	3.6	2700	3000	55*28.5*16.5
ER34615M+LIC1320	3.6	9000	5000	55*43.5*28
ER261020M+LIC1620	3.6	19000	10000	64*54*35.5
ER261020M+LIC1840	3.6	19000	30000	64*56*35.5

Li-MnO2 Battery



Application Sectors



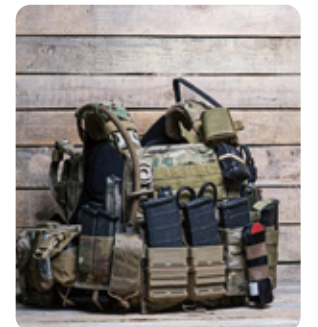
Intelligent Instrumentation



Bluetooth Lock



Medical Equipment



Military Equipment



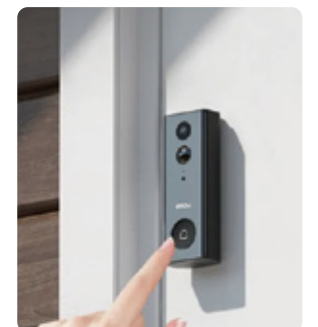
Electric Toy



Wireless Communication



Cameras



Intelligent Security

Product Characteristics

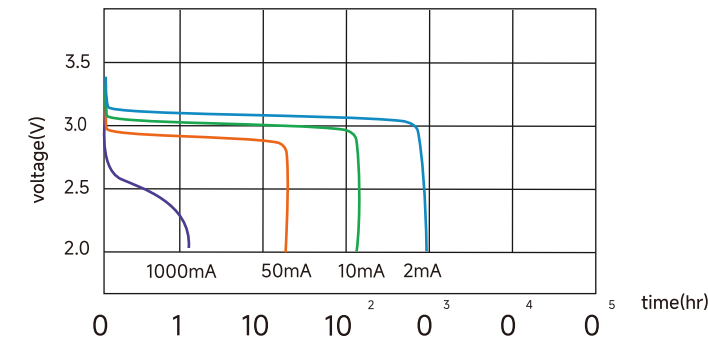


- Smooth working voltage: 2.5V~3V without voltage lag phenomenon
- Low self-discharge rate: annual average self-discharge rate is less than 2% in 25°C environment
- Long storage life: can be stored for 5-10 years in 25°C environment
- Good pulse current performance, high safety, environmentally friendly and non-polluting
- wide temperature range: -40~+85°C
- High energy density: up to 320Wh/kg

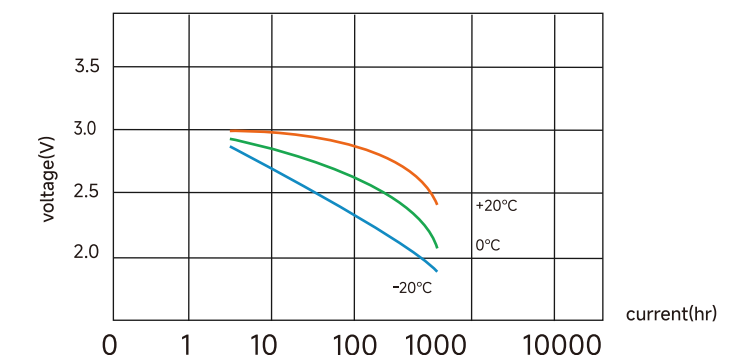
Li-MnO₂ Battery Parameters

MODEL	LEC	DIMENSIONS (mm)	NOMINAL VOLTAGE (V)	CUT-OFF VOLTAGE (V)	NOMINAL CAPACITY (mAh)	MAX CONTINUOUS(MA) DISCHARGE CURRENT (mA)	WEIGHT (g)	TESTTEMPERATURE (°C)
CR2		15.5×27.5	3.0	2.0	850	2000	13	23±3
CR123A		17.5×34.5	3.0	2.0	1500	3000	20	23±3
CR14250	1/2AA	14.5×25.5	3.0	2.0	650	1500	11	23±3
CR14335	2/3AA	14.5×34.5	3.0	2.0	800	1200	14	23±3
CR14505	AA	14.5×50.5	3.0	2.0	1500	3000	21	23±3
CR17450		17×40	3.0	2.0	2500	3000	26	23±3
CR17505		17.5×50.5	3.0	2.0	2800	3000	30	23±3
CR18505	A	18.5×50.5	3.0	2.0	2800	3000	35	23±3
CR26500	C	26.5×50.5	3.0	2.0	5400	3000	62	23±3
CR34615	D	34.5×61.5	3.0	2.0	12000	3000	125	23±3
CR-P2		34.4×34.5	6.0	2.0	1400	3000	42	23±3

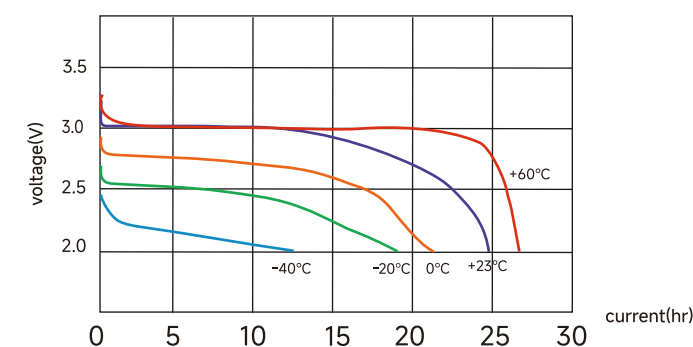
Discharge Curves Under The Condition Of 23 ± 2°C



Voltage, Current And Temperature Characteristics



Voltage Curves Under Different Temperature And Current Conditions (50mA)



Li-FeS2 Lithium-iron Battery



Product Characteristics

- Operating voltage: 0.8V~1.5V
- Wide operating temperature range: -40 ~+60°C
- Low self-discharge rate: annual average self-discharge rate is less than 2% in 25°C environment.
- Long storage life: in 25°C environment, it can be stored for 10 years.

Application Sectors



Lighting Equipment



Portable Equipment

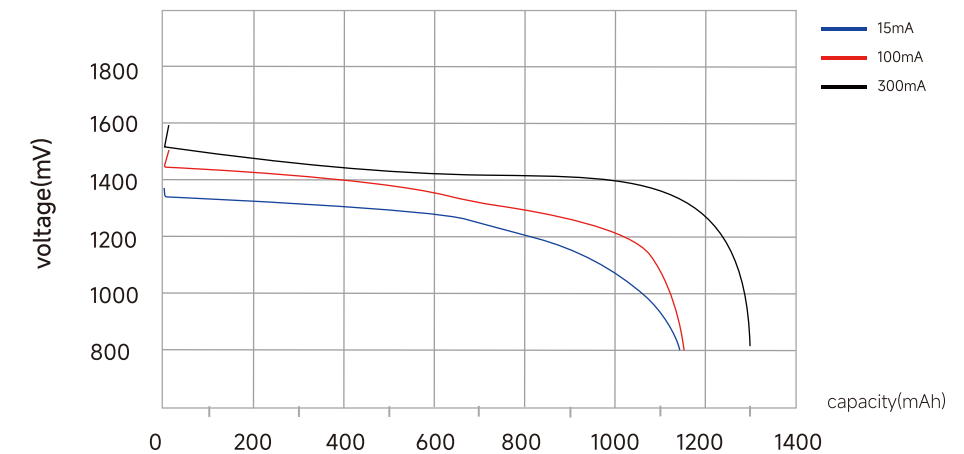


Digital Camera

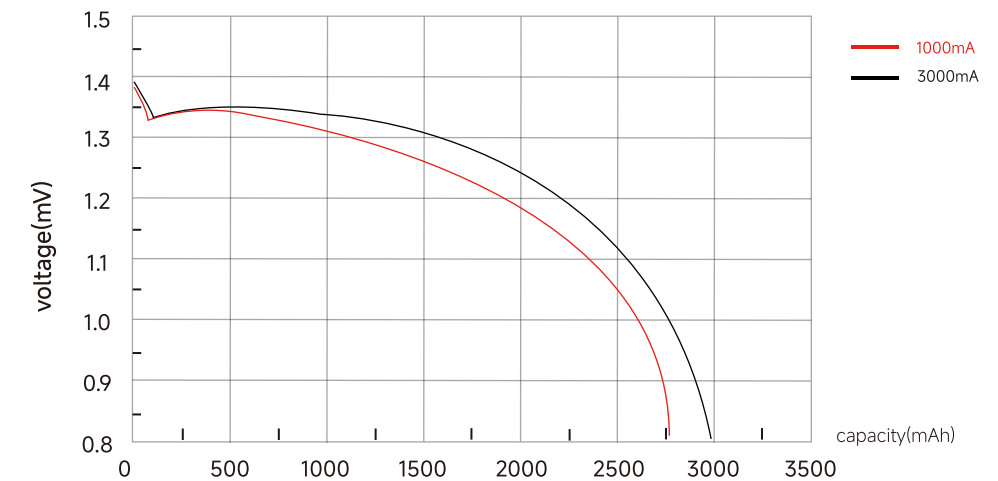
Lithium-iron Battery Parameters

MODEL IEC	NOMINAL CAPACITY(mAh)	NOMINAL VOLTAGE (V)	DIMENSIONS (D*H)	MAX CONTINUOUS DISCHARGE CURRENT (mA)	STORAGE LIFE (Y)	CUT-OFF VOLTAGE (V)	WEIGHT APPROX (g)	OPERATING TEMPERATURE (°C)
FR14505AA	2900mAh	1.5	14.5×50.5	2000	10	0.8	16.8	-20~+60
FR10445AAA	1100mAh	1.5	10.5×15	1000	10	0.8	7.7	-20~+60

FR10445 (FR03) Discharge curve



FR14505 (FR6) Discharge curve



Lithium Button Battery (Normal)

Product Characteristics

- Operating voltage: 2.0V~3V
- Wide operating temperature range: -20~+60°C.
- Low self-discharge rate: annual average self-discharge rate is less than 2% in 25°C environment.
- Storage life: in 25°C environment, it can be stored for 2 years.



Application Sectors



Electronic Label



Intelligent Medical Care



Positioner



Cold Chain Transportation



Temperature Recorder



Intelligent Security

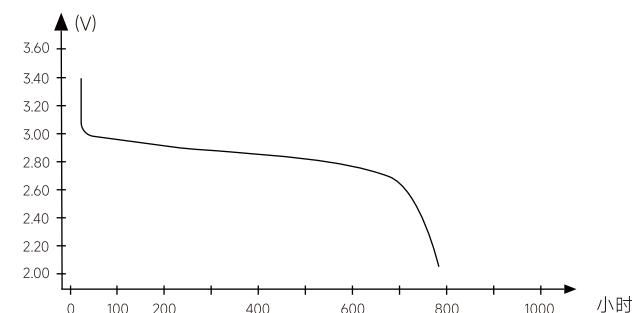


Intelligent Retirement

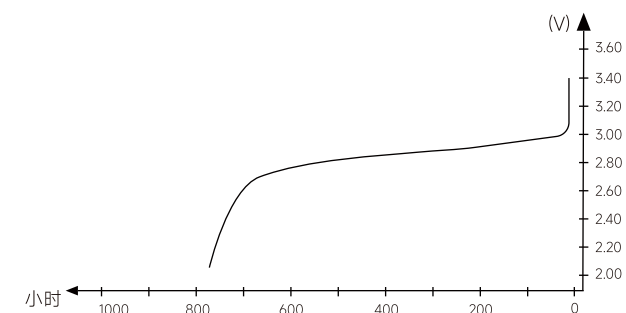


Smart Livestock

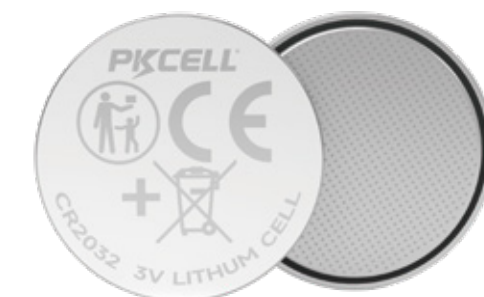
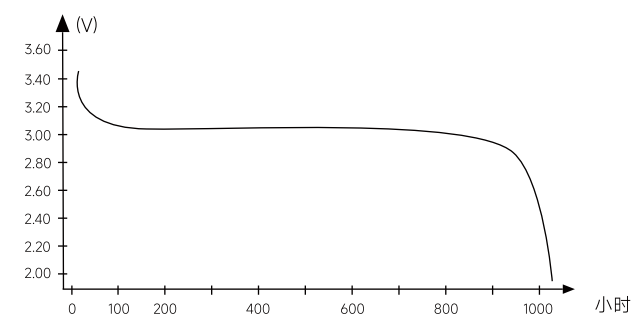
Discharge Curve Of CR2016 Battery 30KΩ



Discharge Curve Of CR2025 Battery 15KΩ



Discharge Curve Of CR2032 Battery 15KΩ



Lithium Button Battery Parameters



LTEM NO.	SYSTEM	NORMAL VOLTAGE (V)	CAPACITY (mAh)	DIMENSION (mm)	WEIGHT (g)	RECOMMENDED CONTINUOUS DRAIN (mA)	RECOMMENDED PULSE DRAIN(mA)
CR927	Lithium	3.0	30	9.5×2.7	0.6	0.5	5
CR1216	Lithium	3.0	25	12.5×1.6	0.7	1.0	5
CR1220	Lithium	3.0	40	12.5×2.0	0.9	1.0	5
CR1225	Lithium	3.0	50	12.5×2.5	1.0	2.0	5
CR1616	Lithium	3.0	50	16.0×1.6	1.2	2.0	10
CR1620	Lithium	3.0	70	16.0×2.0	1.6	2.0	10
CR1632	Lithium	3.0	120	16.0×3.2	1.3	2.0	15
CR2016	Lithium	3.0	75	20.0×1.6	1.8	2.0	15
CR2025	Lithium	3.0	150	20.0×2.5	2.4	2.0	15
CR2032	Lithium	3.0	210	20.0×3.2	3.0	3.0	20
CR2032	Lithium	3.0	220	20.0×3.2	3.1	3.0	20
CR2320	Lithium	3.0	130	23.0×2.0	3.0	3.0	20
CR2325	Lithium	3.0	190	23.0×2.5	3.5	3.0	20
CR2330	Lithium	3.0	260	23.0×3.0	4.0	3.0	20
CR2430	Lithium	3.0	270	24.5×3.0	4.5	3.0	20
CR2450	Lithium	3.0	600	24.5×5.0	6.2	3.0	20
CR2477	Lithium	3.0	900	24.5×7.7	7.0	3.0	10
CR2477	Lithium	3.0	1000	24.5×7.7	9.9	3.0	30
CR3032	Lithium	3.0	500	30.0×3.2	6.8	3.0	20

Lithium Button Battery (Special) Parameters



MODEL NUMBER				SCALE VOLTAGE	OPERATING TEMPERATURE	APPLICATION SECTORS
WIDE TEMPERATURE BATTERY	CR1220WT	CR1225WT	CR1620WT	3V	-40~+85℃	Industrial control、servers、outdoor monitoring equipment、medical equipment
	CR1632WT	CR2016WT	CR2025WT			
	CR2032WT	CR2330WT	CR2354WT			
	CR2430WT	CR2450WT	CR2477WT			
		CR3032WT				
LOW TEMPERATURE BATTERY	CR1632WT	CR2032LT	CR2430LT	3V	-55~+60℃	Livestock ear tagging cold chain transportation
	CR2450LT	CR2477LT				
ELECTRONIC PRICE TAG	CR245ESL			3V	-20~+70℃	electronic price tag
LITHIUM FLUOROCARBON BATTERY	BR1225	BR1632	BR2025	3V	-40~+85℃	Photovoltaic invertersservers medical equipment military industry
	BR2032	BR2325	BR2330			
	BR2450	BR2477				
CAR REMOTE CONTROL BATTERY	CR2016CRC	CR2025CRC	CR2032CRC	3V	-20~+70℃	Car remote control (more durable than normal batteries)

CP Soft Pack Battery



CP Soft Pack Battery Parameters

MODEL (V)	OPERATING VOLTAGE (V)	MAX DIMENSION (mm)	STANDARD CAPACITY (mAh)	MAX CONSTANT CURRENT (mA)	USING TEMPERATURE (°C)
CP073040	3	0.9*40.5*31	50	1	-20~60
CP151350	3	1.5*13*50	140	2	-20~60
CP203047	3	2.2*47.5*35.5	650	200	-20~60
CP204440	3	2.3*44.5*40.5	500	45	-20~60
CP223830	3	2.3*39*30	400	60	-20~60
CP224136	3	2.5*41*36	650	150	-20~60
CP224147	3	2.2*48.3*45.5	800	200	-20~60
CP305050	3	3.2*50.5*56.5	1600	600	-20~60
CP502025	3	5.2*25.5*20.5	400	30	-20~60
CP502425	3	5.2*24.5*25.5	550	40	-20~60
CP502440	3	5.2*41*24.5	1200	20	-20~60
CP505050	3	5.2*50.5*50.5	3000	1500	-20~60
CP504644	3	5.2*46.5*44.5	2400	400	-20~60
CP952434	3	9.7*24.5*35	1600	300	-20~60
CP1003665	3	10*36.3*66	6000	2000	-20~60
CP10120P	3	10*12	140	15	-20~60
CP9V	9	49.5*18*27.3	1200	120	-20~60

Product Characteristics



Lightweight

Soft-pack batteries use aluminum-plastic composite film as their casing material, which is much lighter than traditional metal casings, significantly reducing the overall weight of the battery pack.



Higher Energy Density

Without the need for heavy metal shells to maintain structural integrity, more space can be allocated to the cell itself, thus increasing the energy storage capacity per unit volume and enhancing energy density.



Cost-Effective

While initial investment may be higher, the high material utilization rate and simpler manufacturing processes of soft-pack batteries contribute to better long-term cost efficiency.



Shape Flexibility

Unlike conventional batteries with rigid shapes, soft-pack batteries can be designed in various shapes and sizes according to specific needs. This offers greater freedom in product design, especially in applications where space is limited.



Enhanced Safety

In the event of internal short-circuit or other faults, the design of soft-pack batteries allows for the safe release of gases rather than leading to explosions or ruptures that might occur with hard-cased batteries, thereby improving safety during use.



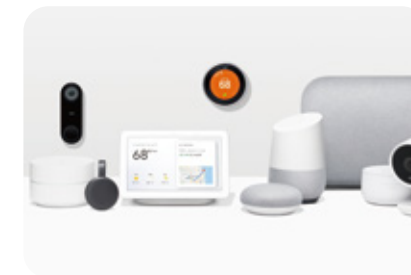
Environmental Friendliness

The materials used in soft-pack batteries are easier to recycle and have less impact on the environment, aligning with modern trends towards sustainable development.

Application Sectors



Drones



Smart Home Devices



Mobile Power



Sphygmometer



Wearable Device



Consumer Electronics