

锂离子电池规格书

Specification For Lithium-ion Rechargeable Cell

电芯型号:N18650CQP

Cell Type: N18650CQP

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1 Preface 前言

This specification describes the type, dimension, performance, technical characteristics, warnings and cautions of the lithium-ion rechargeable cell. The specification only applies to N18650CQP cells supplied by Zhengzhou BAK Battery Co., Ltd.

本标准描述了圆柱型锂离子电池的型号、尺寸、特性、技术要求及注意事项。本标准仅适用于郑州比克电池有限公司生产的圆柱型 N18650CQP 锂离子电池。

2 Definition 定义

2.1 Standard charge method 标准充电方式

At 25 ± 2 °C, the cell is charged to 4.2 V under 1500 mA constant current, then charged under 4.2V constant voltage until the current tapers to 100mA .

在 25±2 ℃下, 电池以 1500 mA 恒流充电至 4.2 V 后, 以 4.2 V 恒压充电至电流小于等于 100 mA。

2.2 Standard discharge method 标准放电方式

At $25\pm2^{\circ}$ C, the cell is discharged to 2.5 V under 600 mA constant current.

在 25±2℃下, 电池 600 mA 恒流放电至 2.5 V。

2.3 Nominal capacity 标称容量

The cell nominal capacity, signed as Cap. and using mAh as unit, is obtained as per standard charge followed by standard discharge.

电池标称容量以 Cap. 表示,单位为毫安时(mAh),是指电池按标准充电方式充电后,按标准放电方式放电得到的容量。

3 Cell type and dimension 电芯型号及尺寸

3.1 Description and model 电芯说明及型号

Description: cylindrical Li-ion rechargeable cell

说明: 圆柱型锂离子可再充电电池

Type: N18650CQP 型号: N18650CQP

3.2 Cell dimension 电芯尺寸

Cell physical dimension listed in Figure 1(Unit: mm), with tube.

电芯尺寸示意图如图 1 所示(单位: mm),包含热缩膜。

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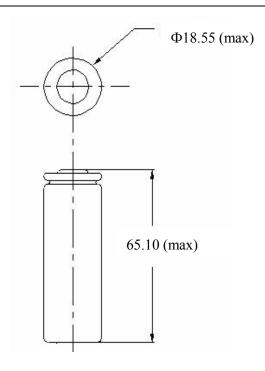


Figure 1/图 1

4 Cell characteristics 电池特性

Unless otherwise specified, the cell is fresh cell and tested by standard charge and standard discharge. 除非有特殊说明,否则所有样品均为新鲜电池,且按标准充电和标准放电方式进行测试。

ITEM	SPECIFICATION	
项目	规格	
Nominal capacity	3000 mAh by standard charge / discharge	
标称容量	以标准充放电制式进行充放电,标称容量为 3000 mAh	
Minimum capacity	2900 mAh by standard charge / discharge	
最低容量	以标准充放电制式进行充放电,最低容量为 2900 mAh	
Nominal voltage	264	
标称电压	3.6 V	
Charge cut-off voltage	40.17	
充电截止电压	4.2 V	
Discharge cut-off voltage	2.5 V	
放电截止电压		
Max continuous charge current	4.A. (25°C)	
最大持续充电电流	4 A (25°C)	
Max continuous discharge current	20 A (25°C mot for souls life 不幸快任工)	
最大持续放电电流	20 A (25℃, not for cycle life 不支持循环)	
Operating temperature (Cell surface)	Charge: 0 to 50°C (Recommended recharge release≤45°C)	
工作温度(电池表面温度) ①	充电: 0 至 50℃ (再次重新充电电芯表面温度≤45°C)	

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	Discharge:-20 to 75°C (Recommended re-discharge release≤50°C)
	放电: -20 to 75°C (再次重新放电电芯表面温度≤50°C)
Humidity range	0 ~ 60 % RH (Non-condensing)
湿度范围	0~60 % RH (不冷凝)
Internal resistance	≤ 16 mΩ (AC Impedance, 1000 Hz)
内阻	交流阻抗测量频率为 1000HZ, 交流内阻≤ 16 mΩ
Weight	
重量	≤ 49.0g

①:The temperature specified above is the highest (lowest) temperature during the battery pack operation.

5 Technical requirements 技术要求

5.1 Cell usage conditions 电池使用环境

Charge temperature (Cell surface): $0 \sim 50$ °C (Recommended recharge release ≤ 45 °C)

充电温度(电池表面): 0~50 ℃(再次重新充电电芯表面温度≤45℃)

Discharge temperature (Cell surface): -20 \sim 75 $^{\circ}$ C(Recommended re-discharge release \leq 50 $^{\circ}$ C)

放电温度(电池表面): -20~75 ℃(再次重新放电电芯表面温度≤50℃)

5.2 Cell testing conditions 电池试验环境

Unless otherwise specified, all tests stated should be done at 25 ± 2 °C.

除非有特殊说明,所有测试须在 25± 2℃下完成。

5.3 Requirement of the testing equipment 测量仪表要求

The voltage measurement device: not less than 0.5 grade

电压测量装置: 不低于 0.5 级

The current measurement device: not less than 0.5 grade

电流测量装置: 不低于 0.5 级

AC Impedance: 1000 Hz

交流阻抗测量频率: 1000 Hz

Temperature meter: precision $\leq 0.5 \,^{\circ}\text{C}$

温度仪表要求: 精度为≤0.5℃

Time measurement tolerance: $\pm 0.1 \%$

时间测量公差: ±0.1%

The size measurement tolerance: $\pm 0.1 \%$

尺寸测量公差: ±0.1%

The quality measurement tolerance: $\pm 0.1 \%$

质量测量公差: ±0.1%

①:上述所规定的温度即为电池包工作过程中最高(低)处的温度。

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5.4 Electrochemical Characteristics 电化学性能

Unless otherwise specified, the cell should be fresh cell.

除非有特殊说明,否则所有样品均为新鲜电池。

No. 序 号	Item 测试项目	Test method and conditions 测试方法与条件	Criterion 性能标准		
5.4.1	Rate discharge capability 倍率放电性能	 (1) Charge: At 25± 2 ℃, 4A constant current charge to 4.2 V followed by 4.2V constant voltage charge to cut-off current 100 mA; (2) Discharge: 10A, 15A, 20A constant current discharge to 2.5 V. (1) 充电: 在 25± 2 ℃下,以 4A 恒流充电至 4.2 V 后,以 4.2V 恒压充电至截止电流 100 mA; (2) 放电:以 10A, 15A, 20A 恒流放电至 2.5 V。 	Current Relative Capacity 电流 相对容量比 10A 100% 15A ≥97% 20A ≥95%		
5.4.2	Room temperature cycle life 常温循环寿命	 Charge: 4A constant current charge to 4.2 V followed by 4.2 V constant voltage charge to cut-off current: 100 mA, rest for 10 minutes; Discharge: 15 A constant current discharge to 2.5 V (with 75 °C cut-off), rest for 30 minutes. 充电: 以 4A 恒流充电至 4.2 V 后,以 4.2 V 恒压充电至截止电流 100 mA, 静置 10 分钟; 放电: 以 15 A 恒流放电至 2.5 V (温度大于 75 °C停止放电),静置 30 分钟。 	Capacity ≥1800mAh after 250 cycles (60% of the standerd capacity at 25℃) 循环 250 圈之后电芯容量≥1800mA (25±2℃标准制式下容量的 60%)		



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5.4.3	High-low temperature discharge performance 高低温放电性能	 (1) Charge: 4A constant current charge to 4.2 V followed by 4.2 V constant voltage charge to cut-off current 100 mA, at 25±2 ℃; (2) Discharge: 10 A constant current discharge to 2.5 V at 60℃, 25℃, 0℃, -10℃, -20 ℃. (1) 充电: 25±2℃下,以4A 恒流充电至 4.2 V 后,以4.2 V 恒压充电至截止电流 100 mA; (2) 放电: 在60℃, 25℃, 0℃, -10℃, -20℃下以10 A 恒流放电至 2.5 V。 	Temperature 温度 -20°C -10°C 0°C 25°C 60°C	Relative Capacity 相对容量比
5.4.4	Storage performance 存储性能	(1) Charge: 4A constant current charge to 4.2 V followed by 4.2 V constant voltage charge to cut-off current 100 mA; Discharge: 10 A constant current discharge to 2.5 V, to obtain the initial capacity; (2) Charge: 4A constant current charge to 4.2 V followed by 4.2 V constant voltage charge to cut-off current 100 mA; (3) Stored at 60±5℃ for 28 days; (4) Discharge: 10 A constant current discharge to 2.5 V; (5) Charge: 4A constant current charge to 4.2 V followed by 4.2 V constant voltage charge to cut-off current 100 mA; Discharge:10 A constant current discharge to 2.5 V, to obtain the recovery capacity. (1) 充电: 以 4A 恒流充电至 4.2 V 后,以 4.2 V 恒压充电至截止电流 100 mA; 放电: 以 10 A 恒流放电至 2.5 V, 获得初始容量; (2) 充电: 以 4A 恒流充电至 4.2 V 后,以 4.2 V 恒压充电至截止电流 100 mA; (3) 于 60±5℃下存储 28 天; (4) 放电: 以 10 A 恒流放电至 2.5 V; (5) 充电: 以 4A 恒流充电至 4.2 V 后,以 4.2 V 恒压充电至截止电流 100 mA; 放电: 以 10 A 恒流放电至 2.5 V, 获得恢复容量。	Capacity 容量 Recovery capacit 恢复容量 Initial capacity 初始容量	≥90%

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5.5 Environmental and safety characteristics 环境适应性及安全性能

NO. 序号	ITEM 测试项目	CRITERION 性能标准	TESTING METHOD 测试条件与方法	ACCORDING 来源
5.5.1	Vibration test 振动测试	No leakage 不漏液	After standard fully charge, cell shall be attached to a vibration table directly and subjected to vibration that consists of 10 Hz to 55 Hz to 10 Hz at the speed of 1Hz/min in 90~100 mins. The total excursion of the vibration is 0.8 mm (0.060 inches). The cell shall be vibrated in each direction along axis of the cylinder and the vertical directions of axis of the cylinder. 将满电电芯放在振动实验台上,在 90~100 分钟内由 10 Hz 到 55 Hz 再到 10 Hz 以 1 Hz/min 的速率变化,振幅为 0.8 mm(0.060 英寸)进行振动实验。电芯在电芯的轴向和与电芯轴向垂直的两个方向上振动。	UL1642
5.5.2	Drop test 跌落测试	No fire, No explosion 不起火,不爆 炸	After standard fully charge, the cell is dropped three times from a height of 1.0 m onto a concrete floor, in random orientations, at 25℃±2℃; Observation of 1 h. 将电芯按标准充电方式充满电; 25℃±2℃下,将电芯从 1.0m 高度处自由跌落 3 次到水泥地面上,方向随机;观察 1h。	IEC62133
5.5.3	Overcharge test 过充测试	No fire, No explosion 不起火,不爆 炸	After standard discharge, the cell is charged at a constant current of 6A, using a supply voltage which is 6V. The test shall be continued until the temperature of the outer case teaches steady state conditions (less than 10℃ change in a 30-min period) or returns to ambient. 电芯按照标准放电方式放完电后,采用 6A 电流 6V 电压持续充电直到外部壳体温度达到稳定(30分钟温度变化小于 10℃)或室温。	IEC62133
5.5.4	Forced discharge test 强制放电测 试	No fire, No explosion 不起火,不爆 炸	A standard discharged cell is subjected to a reverse charge at 3A for 90 min at 25±2℃ 电芯按照标准放电方式放电后,25±2℃条件下以 3A 反向充电 90 分钟。	IEC62133



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5.5.5	130℃ hot oven test 130℃热箱测试	No fire, No explosion 不起火,不爆炸	After standard fully charge, the cell is put in the oven. And then the oven temperature will be ramped at 5° C per minute to 130° C and held at 130° C. When the temperature of the cell reach 130° C, the cell is maintained in the 130° C oven for a maximum of 30 minute or until a fire or explosion is obtained, whichever comes first. Record the time that the cell temperature reaches 130° C and the time when a fire or explosion occurs. 电芯按照标准充电方式充满电后,将电芯放进热箱里,然后将热箱按 5° C/min 升温到 130° C,当电芯的温度也达到 130° C时,电芯在热箱 130° C环境下保持 30° 分钟或者电芯起火爆炸为止。记录电芯温度升至 130° C起直到电芯起火或爆炸的时间。	GB31241
5.5.6	Crush test 挤压测试	No fire、No explosion 不起火、不爆炸	After standard fully charge, the cell shall be crushed between two flat surfaces. The direction of the crushing force shall be vertical to axis of the cylinder. The crushing force is to be applied by a hydraulic ram with a 32 mm diameter piston. Crushing force is approximately 13 KN. Once the maximum pressure has been obtained it is to be released. 电芯按照标准充电方式充满电后,放在两个平整的表面进行挤压测试,压力器必须施加一个与圆柱电芯轴向垂直的力,平压于电芯。采用 32 mm 直径的液压活塞,所用压力为 13 KN,一旦达到最大压力值,即释放压力。	UL1642
5.5.7	Short circuit test at 25±2℃ 25±2℃短路测 试	No fire、No explosion 不起火、不爆炸	After standard fully charge, the cell is to be short-circuited by connecting the positive and negative terminals of the cell with copper wire having a maximum resistance load of $80\pm20\mathrm{m}\Omega$. This test is done at room temperature. Monitor the cell temperature while testing. The battery is to discharge until a fire or explosion is obtained, or until it has reached a completely discharged state of less than 0.2 V and the battery case temperature has returned to $\pm10^{\circ}\mathrm{C}$ of ambient temperature. 电芯按照标准充电方式充满电后,在室温下用铜线连接其正负极(线路总电阻 $80\pm20\mathrm{m}\Omega$) 进行短路实验,实验过程中监视电芯温度变化,当电芯起火或爆炸,或达到完全放电状态(电压<0.2V)且温度下降到环境温度±10°C时,结束实验。	UL1642
5.5.8	Short circuit test at 55±5℃ 55±5℃短路测 试	No fire, no explosion 不起火、不爆炸	After standard fully charge, the cell is to be short-circuited by connecting the positive and negative terminals of the cell with copper wire having a maximum resistance load of $80\pm20\text{m}\Omega$. This test is done at $55\pm5^{\circ}\text{C}$.	UL1642

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			Monitor the cell temperature while testing. The battery is to discharge until a fire or explosion is obtained, or until it has reached a completely discharged state of less than 0.2 V and the battery case temperature has returned to $\pm 10^{\circ}$ C of ambient temperature. 电芯按照标准充电方式充满电后,在 $55\pm 5^{\circ}$ C下,用铜线连接其正负极(线路总电阻 80 ± 20 m Ω) 进行短路实验,实验过程中监视电芯温度变化。当电芯起火或爆炸,或达到完全放电状态(电压< 0.2 V)且温度下降到环境温度± 10° C时,结束实验。		
5.5.9	Low pressure test 低气压测试	No leakage, no fire and no explosion, the maximum mass loss ≤0.1% 不漏液、不起火、不爆炸,最大质量损失≤0.1%	After standard fully charge, the cell is to be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature ($25\pm2^{\circ}$ C). 电芯按照标准充电方式充满电后,在气压低于或等于11.6 kPa 的常温($25\pm2^{\circ}$ C)条件下存储至少 6 h。	UL1642	
5.5.10	Thermal cycling 温度循环	No fire, no explosion, no leak 电芯不起火、不 爆炸、不漏液	The standard fully charged cells are to be placed in a test chamber and subjected to the following cycles:(1) Raising the chamber-temperature to 70 ± 3 $^{\circ}$ C within 30 min and maintaining this temperature for 4 h. (2) Reducing the chamber temperature to 20 ± 3 $^{\circ}$ C within 30 min and maintaining this temperature for 2 h. (3) Reducing the chamber temperature to minus 40 ± 3 $^{\circ}$ C within 30 min and maintaining this temperature for 4 h. (4) Raising the chamber temperature to 20 ± 3 $^{\circ}$ C within 30 min. (5) Repeating the sequence for a further 9 cycles. (6) After the 10th cycle, storing the cells for a minimum of 24 h, at a temperature of 25 ± 2 $^{\circ}$ C prior to examination. 电芯按照标准充电方式充满电后,放入测试箱内,按如下方式测试: (1) 30 分钟内升温至 70 ± 3 $^{\circ}$ C,保持 4h; (2) 30 分钟内降温至 20 ± 3 $^{\circ}$ C,保持 4h; (4) 30 分钟内升温至 20 ± 3 $^{\circ}$ C;(5) 重复以上步骤 9 次; (6) 10 次循环后,在 25 ± 2 $^{\circ}$ C 下观察电芯至少 24 h。	UL1642	
Note 备注	All above safety tests will be conducted at 25±2℃ except where specified differently. Use proper ventilation with protective equipment. 除特殊说明,以上所有安全测试均应在 25±2℃通风橱中,且附带有保护装置的条件下进行。				

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6 Package picture 包装图片







Small box 小箱 Big box 大箱 Pallet 货板

(100pcs cells in a small box, 2 small boxes in a big box) (每小箱装 100 只电芯, 1 个大箱装 2 个小箱)

7 Shipment 出货

The Cell shall be shipped in voltage range of $3.40 \sim 3.60 \text{V}$ by air transport, $3.50 \sim 3.70 \text{V}$ by Sea and land transport or in accordance with customers' requirement. The remaining capacity before charging shall be changed depending on the storage time and conditions.

单体电芯空运按 3.40~3.60V, 海运和陆运按 3.50~3.70V 的充电电压或客户要求出货,电芯出货后充电前的剩余容量取决于储存时间和条件。

8 Warranty 质量保证

The cell warranty period is made according to business contract. BAK will replace no cells for free after shipment if there are problems due to customers' abuse or misuse instead of BAK's manufacturing failure.

电池的保质期限依合同而定,交货之后,如非比克电池有限公司的制程原因,而是客户的滥用和误用造成 的电池质量问题,比克电池有限公司不承诺免费更换。

BAK will not be responsible for the trouble caused by handling in violation of cautions in instructions.

比克电池有限公司对违反安全守则操作所产生的问题不承担任何责任。

BAK will not be responsible for the trouble caused by matching electric circuit, battery pack and charger.

比克电池有限公司对与电路、电池组和充电器搭配使用所产生的问题不承担任何责任。

BAK will not be responsible for any defect of cells caused during assembling after acceptance.

出货后客户在电池组装过程中产生的不良电池不在比克电池有限公司质量保证的范围之列。

9 Storage and shipment requirement 存储及运输要求

Item	Conditions	Permissible time
项目	环境	允许时间

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	-20 °C~ 60 °C, 60% RH Max	Less than 1 month 少于 1 个月	
Storage environment 储存环境	-20 °C ~ 45 °C, 60% RH Max	Less than 3 months 少于 3 个月	
	-20 °C ~ 25 °C, 60% RH Max	Less than 1 year 少于 1 年	

About long time storage:

If the cell needs to be stored for a long time, the cell's storage voltage should be $3.4 \sim 3.7$ V. Also, it is recommended to charge the cell every six months.

关于长期存储:

若电池需长期存储,电池的存储电压应该为3.4~3.7 V。同时,建议每6个月对电池进行充电。

10 Warning and cautions in handling the lithium-ion cell 电池使用时警告事项及注意事项

Cell abuse can cause damage to the cell and/or personal injury. Please read and observe the standard cell precautions below before utilization.

电池滥用可能会造成对电池的损害或对人身的伤害,在使用前,请仔细阅读以下安全守则。

Note 1, the customer is required to contact BAK Battery Co., Ltd. in advance, if and when the customer needs other applications or operating conditions not described in this specification.

注释 1,客户如需在本规格书所述之外的条件下使用电池,请提前联系比克电池有限公司。

Note 2, BAK Battery Co., Ltd. will take no responsibility for any accident when the cell is used under other conditions not described in this specification.

注释 2, 如在本规格书所述条件之外使用电池而发生事故, 比克电池有限公司不承担任何责任。

Warnings 警告

To prevent damage or injury from cell leaking, heating and/or explosion, please observe the following precautions before use. (It should be indicated especially in manual or instruction for users.)

为避免因电池泄漏、发热和/或爆炸造成伤害,请在使用前注意以下预防措施。(应在使用说明手册或说明书中特别注明)

1	Do not use and leave the cell near a heat source such as fire or heater.				
1	禁止在火、加热器待高温热源附近使用和留置电池。				
,	Do not use or leave the cell under the blazing sun (or in heated car by sunshine).				
2	不要将电芯放置在太阳光直射的地方。				
	Do not use or leave the cell at very high temperature conditions (e.g., strong direct sunlight or a vehicle in				
	extremely hot conditions). Otherwise, it can overheat or catch fire or its performance will be degenerate and its				
3	service life will be decreased.				
	禁止在高温下(直热的阳光下或很热的汽车中)使用或留置电池,否则可能会引起电池过热、起火、功能				
	失效和寿命减短。				
4	Do not short circuit, overcharge or over-discharge the cell.				
	不要将电池短路、过充或过放。				

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本规格书为郑州比克电池有限公司企业标准,未经授权,禁止翻印、传播。



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	禁止使用已损坏的电池。
24	Make sure package designing will not cause cell damages.
24	电池外壳设计和包装禁止损伤电池。
	Cell packing should be conducted strictly according to level range, any misuse of different levels should not be
25	permitted.
	电池配组时需严格按等级执行,不能跨等级成组。
26	Disassembling cells from pack or module is not permitted unless under the guidance of professional technicians.
26	严禁将电池从电池包或电池模组中拆卸,除非在专业技术人员的指导下进行。

11 The restriction of the use of hazardous substances 有害物质控制要求

This model of lithium-ion cell is in accordance with our company's request of "The hazardous substances and material management standard" or customer's requirements.

本型号锂离子电池符合本公司《有害物质与材料管理规范》要求或参照客户要求执行。

12 Contact information 联系方式

If you have any questions regarding the cell, please contact the following address:

如有疑问,请按以下地址联系:

1.ZHENGZHOU BAK BATTERY Co., Ltd

The intersection 300meters West of Zhongxin Road & BAK Avenue, Zhongmu Country, Zhengzhou City, Henan, China. ZIP: 451450

Contact phone number: 0371-62033101

1.郑州比克电池有限公司

郑州市中牟县中兴路与比克大道交叉口向西 300 米 邮编 451450

联系电话: 0371-62033101

2. SHENZHEN BAK POWER BATTERY Co., Ltd

BAK Industrial Park on Kuichong Road, Dapeng District, Shenzhen. ZIP: 518119

Contact phone number: 0755-61886818

2.深圳市比克动力电池有限公司

深圳市大鹏新区葵涌街道比克工业园 邮编: 518119

联系电话: 0755-61886818



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13 Version change record 修订履历

Version	Change Content	Page	PIC	Date
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A/00	First Edition 初版	All 全部	Yue Xu	2023-3-23