

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u> A2 </u> Date : <u> 2025-10-14 </u>
-----------------	--------------------------------	--

电池规格书

Battery Specification

Customer:	C0914
Model Name:	0914O3
Battery P/N:	5.501.00.01031 (T8110-B)
Client P/N:	31015000326
Description:	Rechargeable Lithium-ion Battery PACK
Supplier:	广东力科新能源有限公司
Created:	杨佳
Checked:	晋文章/边映枚
Approved:	王友伟

EDITION RECORDS/版本记录

Revision/版本	Date/日期	Originator/发起人	Description/内容描述
A0	2025-6-23	杨佳	Original version 初版发行
A1	2025-6-24	杨佳	加入安克量产编码信息
A2	2025-9-15	杨佳	标签图增加KC号

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

CONTETE/目录

1. Scope/适用范围	4
2. Product name and model/产品型号名称	4
3. Battery Pack Overview 电池组概述	4
3.1 Pack Main Characteristics 主要特性	4
3.2 Connector Terminal Specifications 输出端子规格	4
4. Battery pack outline dimensions 电池组外形尺寸	5
5. 2D Product Exploded View Diagram/2D 结构爆炸分解图	6
6. Label/贴纸	7
7. Battery Characteristics/电池组参数	8
8. BMS Specification/保护板规格	9
8.1 Function of BMS/保护板参数 @25℃	10
8.2 Parts List/器件清单	11
8.3 Circuit Diagram/电路原理图	12
8.4 PCB Layout	13
9. Battery Performances and Criteria/电池性能及标准	14
9.1 Electrical Performances/电性能	14
9.2 Mechanical Performances/机械性能	17
9.3 Safety Performances/安全性能	18
10. Package/包装	20
11. Others/其他	20
11.1 Odor/气味	20
11.2 Protection for Environment/环境保护	21
12. Handling Precautions and Guideline/操作及注意事项	21
12.1 Charge/充电	21
12.2 Discharge current/放电电流	21
12.3 Discharge temperature/放电温度	21
12.4 Over-discharge/过放电	21
12.5 Storing the Batteries/贮存电池	21
12.6 Storage/贮存	21
12.7 Other Chemical Reaction/其它化学反应	21
13. Warnings/使用警告	22
14. Cell Drawing/电芯绘图	22
15. Appendix/附录	23

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: *****
		REV: <u>A2</u> Date : <u>2025-10-14</u>

1. Scope/适用范围

The specification is applicable to //Guangdong Pow-Tech New Power CO.,LTD. with basic performance, technical requirement, testing method, warning and caution of the rechargeable Lithium-ion battery.

本规格书规定了可充电锂离子电池的基本性能、技术要求、测试方法及注意事项，本标准只适用//广东力科新能源有限公司

2. Product name and model/产品型号名称

Li-ion Cylindrical Rechargeable Battery Pack/圆柱形锂离子充电电池组

3. Battery Pack Overview 电池组概述

3.1 Pack Main Characteristics 主要特性

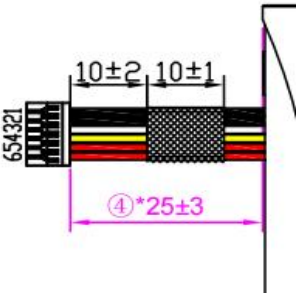
Supplier 电芯厂家	Cell Model 电芯型号	Series parallel Construction 串并联结构	Nominal Voltage 标称电压	capacity 容量 (mAh)	Cell Impedance 电芯内阻
BAK	N18650CP-34 E (A1 版本)	1S2P	3.6V	6700 (Typical.) 6300 (Rated.)	≤ 30mΩ
Pack Grouping 电芯配组 (同一批次)		Voltage steps / 电压分组: 5 mV Imp steps / 内阻分组: 3mΩ Capacity steps/容量分组: 30 mAh//电芯配组标准			

3.2 Connector Terminal Specifications 输出端子规格

Terminal 端子	Name 定义	Description 描述
Pin6	P+	Battery Positive Terminal/ 电池输出正极
Pin5	P+	Battery Positive Terminal/ 电池输出正极
Pin4	ID	62K resistor connect to P- /62K 电阻连接 P-
Pin3	NTC	10K Ohm B=3435K thermistor /10K NTC
Pin2	P-	Battery Negative Terminal/ 电池输出负极
Pin1	P-	Battery Negative Terminal/ 电池输出负极

Battery pack output port diagram/ 电池组输出端口图

主选:A1256(GH)浙江联和
备选:A1253-T06智勇达
Wire: UL3302 AWG26#
Pin1 to Pin2:-Ve Black
Pin3:NTC White
Pin4:ID Yello
Pin5 to Pin6:+Ve Red



第 4 页 共 28 页

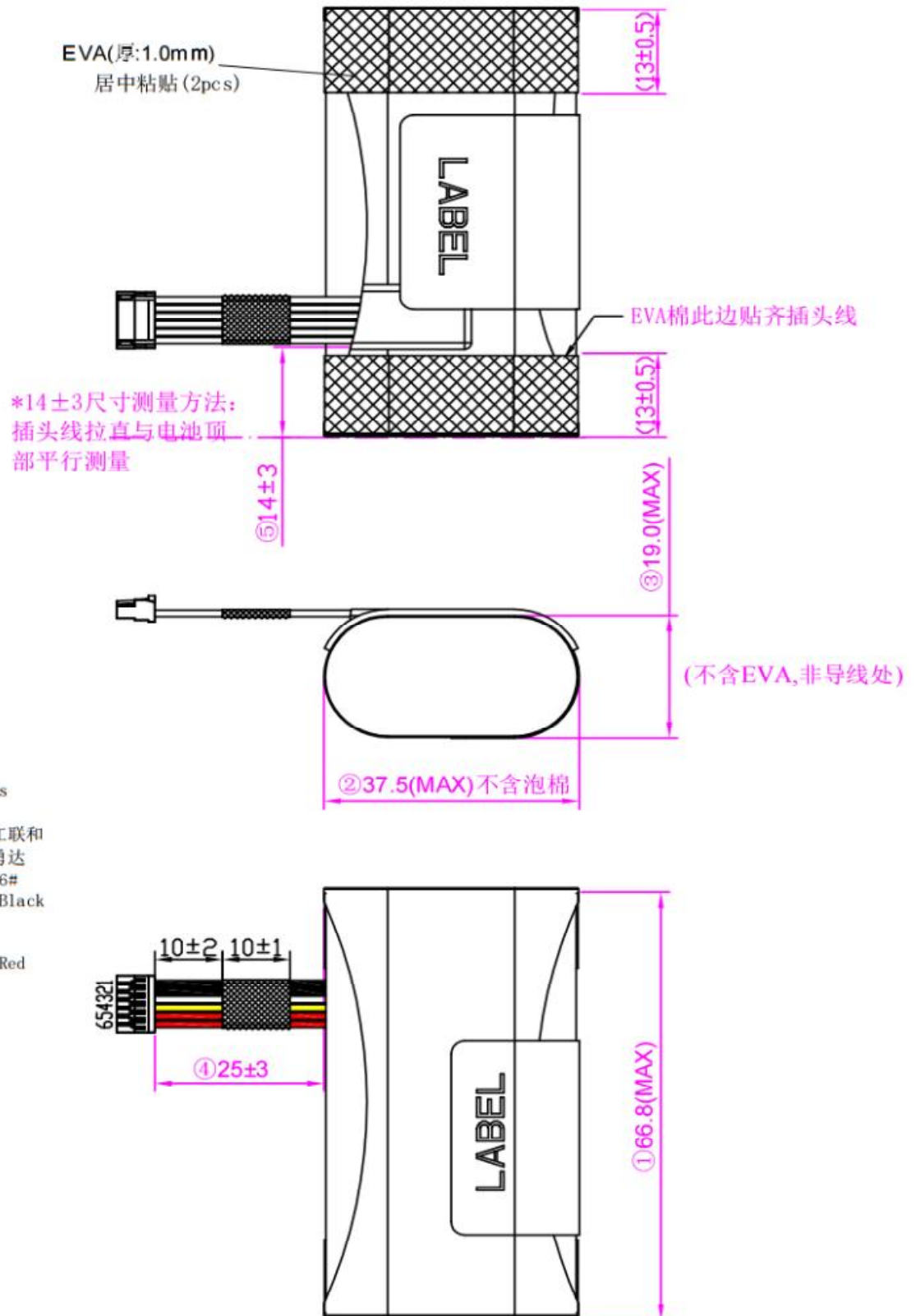
PRODUCT SPECIFICATION 产品规格书

Doc No: *****

REV: A2 Date : 2025-10-14

0914O3(T8110-B)

4. Battery pack outline dimensions 电池组外形尺寸



Connector comments
Brand:
主选:A1256(GH) 浙江联和
备选:A1253-T06智勇达
Wire: UL3302 AWG26#
Pin1 to Pin2:-Ve Black
Pin3:NTC White
Pin4:ID Yello
Pin5 to Pin6:+Ve Red

5. 2D Product Exploded View Diagram/2D 结构爆炸分解图（TBD）

No.	Part Name 零件名称	Description 描述	用量	Remark 备注
1	Cell 电芯	N18650CP-34E	2	BAK
2	导线 Lead wire	UL3302-26AWG	6	
3	Connector 连接器	主选：A1256(GH)浙江联合 备选：A1253-t06 智勇达(1.25PH 带扣)	1	
4	PCBA	FR4*1.0mm/V-0	1	
5	LABEL	合成纸覆哑膜/0.08mm	1	
6	EVA	37*13*1.0mm/硬度 38°	2	绕电池主体两端

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

6. Label/贴纸

Battery category: Portable battery (11NR19/66-2)

Rechargeable Lithium-ion Battery

Model Name:0914O3

Nominal Voltage:3.6Vdc

Max. Charge Voltage:4.2Vdc

Rated Capacity:6300mAh,22.68Wh

Nominal Capacity:6700mAh,24.12Wh

Manufacturer:

Guangdong Pow-Tech New Power Co.,Ltd.

Address:

No.9, Hengdong 3Rd, Hengkeng Shiling industry Zone, Liaobu Town, Dongguan, Guangdong, P.R. China

www.szpowtech.com.cn/ pt@szpowtech.com.cn

CAUTION:

Risk of Fire and Burns.Do Not Open, Crush, Heat Above 60°C or Incinerate.

AVERTISSEMENT:

Risque d'incendie et de brûlures. Ne pas ouvrir, écraser, chauffer à plus de 60 degrés Celsius ou incinérer

경고:

배터리를 단락시키지 말고 배터리 셀이나 배터리 팩을 고온이나 불에 노출시키지 마십시오.

バッテリーをショートさせたり、バッテリーセルやバッテリーパックを高温や火にさらしたりしないでください。

For use only with specified charger.

Red(+) Black(-)



Li-ion 20



XU100917-25129

A/S연락처:1666-8470

PS

E

アンカー・ジャパン株式会社

Made in China





LK BKH250311

0914O30000101

▼ 二维码说明:

1. 年月日以订单要求为准，序列号为跳码，跳码需过日清零，跳码不可重码；
2. 二维码采用QR Code，二维码清晰可扫，要求扫码枪、手机均可进行扫码、读码；
3. 明码内容与暗码内容需要保持一致；
4. 二维码尺寸大小: 7mm*7mm±1;

明码/暗码扫码共计24位，扫码信息如下:

LK

BK

H

25

03

11

0914O3

00001

01

①

②

③

④

⑤

⑥

⑦

⑧

⑨

- ①、PACK厂代码：两位固定码，用于代表PACK厂：如力科代码“LK”；
- ②、电芯厂代码：两位固定码，用于代表电芯厂(比克)；
- ③、地区代码：一位固定码，用于代表销售地区，(中国“G”/除中国以外“H”/全球“Q”)；(由PMC提供)
- ④、年代码：二位固定码，年份后两位为代码，例如2025年为25；
- ⑤、月代码：二位固定码，月份数值为代码，例如1月为01；
- ⑥、日代码：二位固定码，某天数值为代码，例如6号为06；
- ⑦、项目代码：六位项目代码，例如091403；
- ⑧、流水码：电池序列号代码，以10进制为流水码进行进位，从00001开始至99999结束；过日清零。
- ⑨、备用码：01表示电池T8110-B；

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书		Doc No: *****
			REV: <u>A2</u> Date : <u>2025-10-14</u>

7. Battery Characteristics/电池组参数

No.	Items/项目		Specifications/规格	Remark/备注
7.1	Capacity 容量	Nominal Capacity (Energy) 标称容量 (能量)	6700mAh (24.12Wh)	Capacity test with standard charge and standard discharge at 25℃ ± 2℃
		Rated Capacity (Energy) 额定容量 (能量)	6300mAh (22.68Wh)	
7.2	Nominal Voltage 标称电压		3.6V	
7.3	Charge 充电	Charging Method 充电模式	CC&CV	
		Full Charging(FC) Voltage 充电电压	4.2V	Upper limited charge voltage 充电限制电压
		Standard Charging Current 标准充电电流	1260mA	
		Max Charging Current 最大持续充电电流	3000mA	
		Charging temperature & current control range 充电温度&电流控制范围	Cell Surface Temp 电芯表面温度	Current and Voltage 电流和电压
			-10℃ to 0℃	Maximum 0.1C(630mA)constant current to 4.1V, then constant voltage to 0.02C 最大 0.1C (630mA) 恒流至 4.1V, 然后恒压至 0.02C
			0℃ to 15℃	Maximum 0.2C (1260mA)constant current to 4.2V, then constant voltage to 0.02C 最大 0.2C (1260mA) 恒流至 4.2V, 然后恒压至 0.02C
			15℃ to 50℃	Maximum 3.0A constant current to 4.2V, then constant voltage to 0.02C 最大 3.0A 恒流至 4.2V, 然后恒压至 0.02C
		Cell Surface Temp 电芯表面温度	Upper Limited Charging Temperature 上限充电温度: 50℃ Lower Limited Charging Temperature 下限充电温度: -10℃	
7.4	Discharge 放电	Full-discharge ending of Voltage 放电终止电压	2.7V	Cut-off voltage is 2.70V/string @25℃
		Standard Discharging Current 标准放电电流	1260mA	Recommended discharge current for capacity test 做容量测试所推荐的放电电流

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书		Doc No: *****
			REV: <u>A2</u> Date : <u>2025-10-14</u>

		Max Discharging Current 最大持续放电电流	3000mA	
		Peak Discharging Current 峰值放电电流	5000mA	≤ 1ms
		Discharging temperature & current control range 放电温度&电流控制范围	Cell Surface Temp 电芯表面温度	Current and Voltage 电流和电压
			-20℃≤T<0℃	Maximum 3.0A constant current discharge to 2.7V 最大 3.0A 恒流放电至 2.7V
			0℃≤T<70℃	5.0A @1ms
		Cell Surface Temp 电芯表面温度	Upper Limited Discharging Temperature 上限放电温度：70℃ Lower Limited Discharging Temperature 下限放电温度：-20℃	
7.5	Temperature Dis. performance 不同温度放电能力（base on Standard charge@ 0.2C RT)		0.2C discharge @-20℃	≥70% Cmin
			0.2C discharge @-10℃	≥75% Cmin
			0.2C discharge @0℃	≥85% Cmin
			0.2C discharge @25℃	≥100% Cmin
			0.2C discharge @60℃	≥95% Cmin
7.6	Storage Temperature 储存温度	-20℃ to + 60℃ less than 30 days at shipping status 出货状态下在-20℃ to + 60℃不超过30天 -20℃ to +45℃ less than 3 months at shipping status 出货状态下在-20℃ to +45℃不超过3个月 -20℃ to +25℃ less than 12 months at shipping status 出货状态下在-20℃ to + 25℃不超过12个月		The cell shall be charged periodically to maintain voltage between 3.45V and 3.70V. 电池应该定期充电使电压保持在 3.45V到3.70V之间。
7.7	AC Impedance 交流内阻		≤100m Ω	1KHz AC Method
7.8	As of shipment (status of the delivery) 出货状态 (Pack Voltage电池组电压)		3.5V-3.6V (20%~30%SOC)	The voltage range is valid for 20 days after delivery. 电压范围有效期为出厂 20天内
7.9	ID 电阻精度		±1.5%	After reflow soldering, there will be a slight change in the resistance value of the resistor The test value is based on this 电阻过回流焊后阻值会有轻 微变化，测试值以此为准
7.10	Approx. Weight 电池重量		99±4g	

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

7.11	PS level PS等级	PS2	
------	------------------	-----	--

8. BMS Specification/保护板规格

8.1 Function of BMS/保护板参数 @25℃

NO	Items/ 目录	Criteria/ 标准
5.1	Over-charge Protection Voltage/ 过充保护电压.	4.225±0.025V/ Cell
5.2	Over-Charge Protection Delay Time/ 过充保护延迟时间	1.0s±0.3s
5.3	Over-charge release Voltage/ 过充保护恢复电压	4.025±0.050V/ Cell
5.4	Over-discharge Protection Voltage/ 过放保护电压.	2.700±0.050V/ Cell
5.5	Over-Discharge Protection Delay Time/ 过放保护延迟时间	13~40ms
5.6	Over-Discharge protection release voltage/ 过放保护恢复电压	3.000±0.100V/ Cell
5.7	Discharge Over-current Protection/ 放电过流保护.	5.1~12.0A
5.8	Discharge Over-Current Protection Delay Time/ 放电过流保护延迟时间	9.6~14.4ms
5.9	Charge Over-current Protection/ 充电过流保护.	3.1~9.0A
5.10	Charge Over-Current Protection Delay Time/ 充电过流保护延迟时间	6.4~9.6ms
5.11	Short-Circuit Protection Delay Time / 短路保护延迟时间	200-700us
5.12	Current Consumption(operation) / 工作时静态电流	8uA(max)
5.13	Current Consumption(standby)/ 保护状态下静态电流	0.5uA(max.)
5.14	Resistance Impedance / 导通内阻	≤60mΩ
5.15	0V Battery Charge function/ 0V 电池充电功能(≤1.5V)	Unavailable

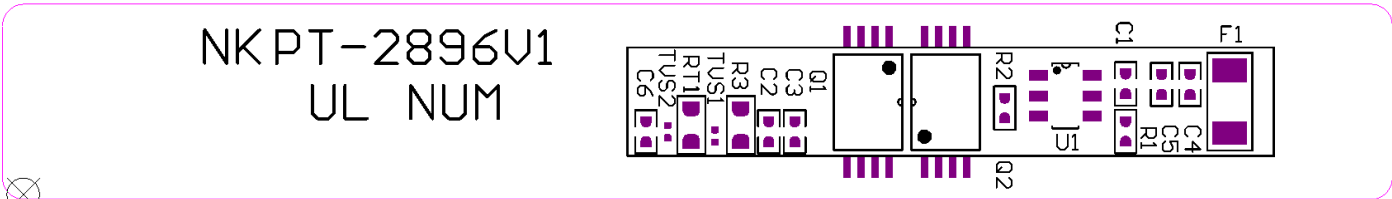
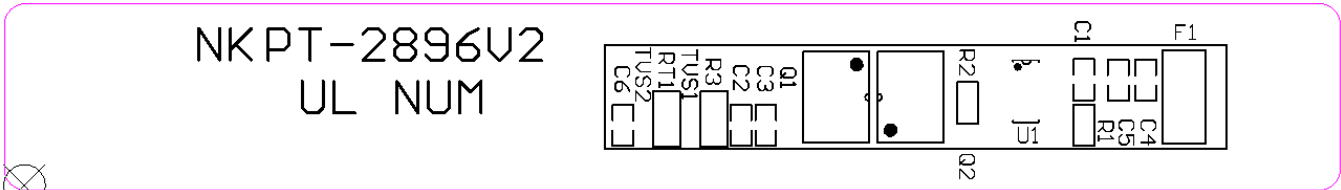
0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: *****
		REV: <u>A2</u> Date : <u>2025-10-14</u>

8.2 Parts List/器件清单

Item	Symbol	Description	Part	Manufacturer	Qty
8.1	U1	Protection IC	HY2510SC-B2D	宏康	1
8.2	Q1, Q2	Power Mosfet	DP8205A/主选	德普微	2
			PE8810B/备选	SEMIONE	
8.3	F1	FUSE	12 110.15/1206 主选	ASTM	1
			S1206-FA-15.0A 备选	SART	
8.4	RT1	NTC	10K 1% B=3435K/0603	仙桥	1
8.5	R3	ID	62K±1%/0603	国巨	1
8.6	R1	电阻	100Ω±5%/0402	国巨	1
8.7	TVS1	二极管	ESDBL5V0AE1	JSCJ	1
8.8	TVS2	二极管	NC		NC
8.9	R2	电阻	2KΩ±5%/0402	国巨	1
8.10	C1-C5	电容	X7R 0.1UF±10%	三星/村田	5
8.11	C6	电容	X7R 10nF±10%	三星/村田	1

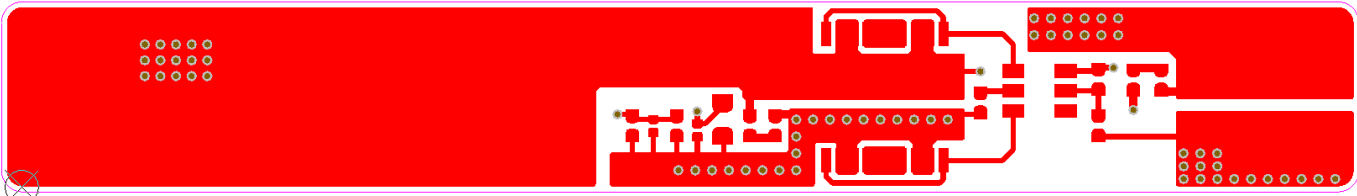
8.4 PCB Layout

Top layer:

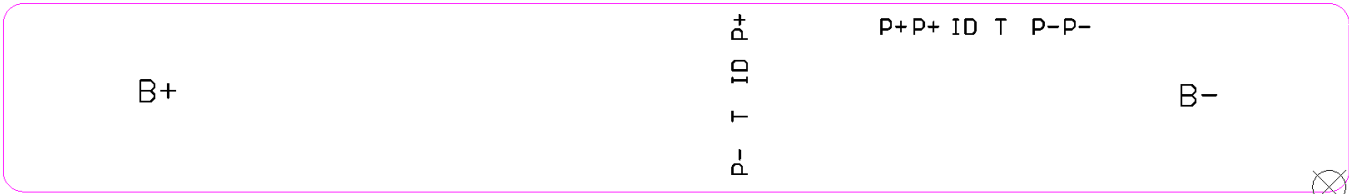


备注: NKPT-2896V1 与 NKPT-2896V2 版本仅是丝印差异

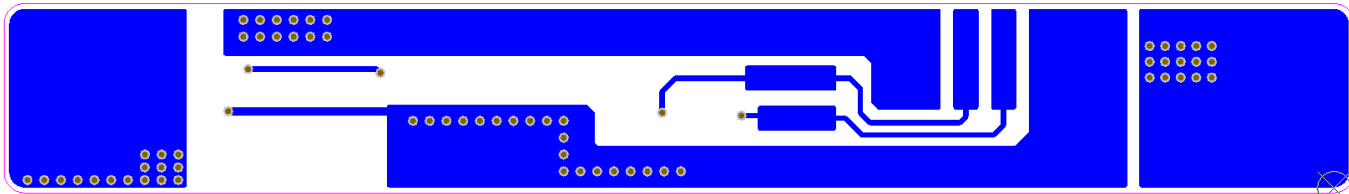
Top Silkscreen & Paste:



Bottom layer:



Bottom Silkscreen & Paste:



0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

9. Battery Performances and Criteria/电池性能及标准

9.1 Electrical Performances/电性能

No.	Items/项目	Test Method and Condition/测试方法及条件	Criteria/标准
9.1.1	*battery Capacity *电池容量	Charge method: charge with constant current 0.5C to limited charging voltage, then charge with constant voltage till the charge current decreases to 0.02 C. Discharge method: discharge with 0.2 C to end of discharge voltage. 充电方法：0.5C恒流充电至充电限制电压4.2V，然后恒压充电至电流降到0.02C。 放电方法：0.2C恒流放电到放电终止电压2.7V。	≥6300mAh Cmin
9.1.2	*RT Cycle Life *室温循环寿命	Test temperature: 25℃ ± 2℃ 1.Charge: 0.5C Charge to 4.2V, then CV 0.05C 2.Rest 10min 3.Discharge :1.0C discharge to 2.7V. 4. Rest 30min 5.Repeat 1~3 step 500 cycles, and record the discharge capacity 测试温度：25℃ ± 2℃ 1. 充电：0.5C充电4.2V截止电流到0.05C 2. 搁置：10分钟 3. 放电：1.0C放电到2.7V 4. 搁置：30分钟 5. 重复2~4步，循环500次，并记录第500次的放电容量（与初始相比）	Cap Retention ≥ 80% C initial 容量保持≥80%C initial
9.1.3	Cycle Life at 45℃ 45℃循环寿命	Test temperature: 45℃ ± 2℃ 1.Charge: 0.5C Charge to 4.2V, then CV 0.05C 2.Rest 15min 3.Discharge :1.0C discharge to 2.7V. 4. Rest 15min 5.Repeat 1~3 step 500 cycles, and record the discharge capacity 测试温度：45℃ ± 2℃ 1. 充电：0.5C充电4.2V截止电流到0.05C 2. 搁置：15分钟	Cap Retention ≥ 60% C initial at 300 cycles 300圈容量保持≥60%C initial Coulombic efficiency ≥98% at 500 cycles 500圈库伦效率≥98%C

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

		3. 放电：1.0C放电到2.7V 4. 搁置：15分钟 5. 重复 2~4 步，循环 500 次，并记录第 500 次的放电容量（与初始相比）	
9.1.4	Cycle Life at 60℃ 60℃循环寿命	Test temperature: 60℃±2℃ 1.Charge: 0.5C Charge to 4.2V, then CV 0.05C 2.Rest 15min 3.Discharge :1.0C discharge to 2.7V. 4. Rest 30min 5.Repeat 1~3 step 500 cycles, and record the discharge capacity 测试温度：60℃±2℃ 1. 充电：0.5C充电4.2V截止电流到0.05C 2. 搁置：15分钟 3. 放电：1.0C放电到2.7V 4. 搁置：30分钟 5. 重复 2~4 步，循环 100 次，并记录第 100 次的放电容量（与初始相比）	Cap Retention ≥ 70% C initial at 容量保持≥70%C initial
9.1.5	Cycle Life at -10℃ -10℃循环寿命	Test temperature: -10℃±2℃ 1.Charge: 0.1C Charge to 4.1V, then CV 0.02C 2.Rest 60min 3.Discharge :1.0C discharge to 2.7V. 4. Rest 60min 5.Repeat 1~3 step 150 cycles, and record the discharge capacity 测试温度：-10℃±2℃ 1. 充电：0.1C充电4.1V截止电流到0.02C 2. 搁置：60分钟 3. 放电：1.0C放电到2.7V 4. 搁置：60分钟 5. 重复 2~4 步，循环 150 次，并记录第 150 次的放电容量（与初始相比）	No fire No explosion No leakage After 50 cycles , capacity remains 80% retention of first cycle After 150cycles lithium plating area ≤70%, with normal charge/discharge 不起火，不爆炸，不漏液，循环 50 次后，容量保持率 ≥80% 循环150次后，析锂面积 ≤70%（没有安全风险）
9.1.6	High Temp. Discharge 高温放电	Sample battery is standardly charged and placed in 60±2℃ environment for 2h, then discharged with 1C to 2.7V. 电池按标准方式充电后在60±2℃环境下静置2小时，然后以1 C放电至2.7V	≥ 96% Cmin

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
------------------------	--	--

9.1.7	Low Temp. Discharge 低温放电	Sample battery is standardly charged and placed in $-10 \pm 2^{\circ}\text{C}$ environment for 4 h, then discharged with 1 C to 2.7V. 电池按标准方式充电后在$-10 \pm 2^{\circ}\text{C}$环境下静置4小时，然后以1 C放电至2.7V	$\geq 55\% \text{ Cmin}$
9.1.8	*Cap. Retention Performance 室温荷电保持性能	At $23 \pm 2^{\circ}\text{C}$, a sample battery is standardly charged and stored for 28 days, and then discharged with 0.2C to 2.7V after the storage. 电池在$23 \pm 2^{\circ}\text{C}$下按照标准充电方法满充并静置28天，然后用0.2C恒流放电至2.7V并记录放电容量。	Remain capacity $\geq 90\% \text{ Cmin}$ 放电容量不低于90% Cmin。
9.1.9	Store at $60 \pm 2^{\circ}\text{C}$ for 7 days $60 \pm 2^{\circ}\text{C}$ 储存7天	Store the battery core in a fully charged state at $60 \pm 2^{\circ}\text{C}$ for 7 days, then cool it at room temperature for 2 hours, and then discharge it to the cut-off voltage with a constant current of 0.2C and record the remaining discharge capacity. Then record the recoverable capacity following the charge-discharge methodology specified in Section 9.11 电池在满充状态下于$60 \pm 2^{\circ}\text{C}$的环境下保存7天，然后在室温下冷却2小时，然后用0.2C恒流放电至截止电压并记录放电剩余容量。然后参考9.11的充放电方式，记录恢复容量。	Residual Capacity $\geq 90\% \text{ Cmin}$ Recoverable Capacity $\geq 95\% \text{ Cmin}$ 残余容量 $\geq 85\% \text{ Cmin}$ 恢复容量 $\geq 95\% \text{ Cmin}$
9.1.10	Store at $60 \pm 2^{\circ}\text{C}$ for 30 days $60 \pm 2^{\circ}\text{C}$ 储存30天	Store the battery core in a fully charged state at $60 \pm 2^{\circ}\text{C}$ for 30 days, then cool it at room temperature for 2 hours,, and then discharge it to the cut-off voltage with a constant current of 0.2C and record the remaining discharge capacity. Then record the recoverable capacity following the charge-discharge methodology specified in Section 9.11 电池在满充状态下于$60 \pm 2^{\circ}\text{C}$的环境下保存30天，然后在室温下冷却2小时，然后用0.2C恒流放电至截止电压并记录放电剩余容量。然后参考9.11的充放电方式，记录恢复容量。	Residual Capacity $\geq 85\% \text{ Cmin}$ Recoverable Capacity $\geq 90\% \text{ Cmin}$ 残余容量 $\geq 80\% \text{ Cmin}$ 恢复容量 $\geq 90\% \text{ Cmin}$
9.1.11	High Temperature Capacity Retention 高温荷电保持能力及恢复容量	The RT capacity on 0.2Cmin discharge shall be measured after standard charge to 40%~60%SOC and then storage at $60 \pm 2^{\circ}\text{C}$ & 45%-75%RH for 15 days. 电池储存前给电芯充入40%-60%的容量,然后在温度$60 \pm 2^{\circ}\text{C}$，相对湿度45%-75%的环境中储存15天。然后再按规定满充电芯，在$23 \pm 2^{\circ}\text{C}$温度环境下以0.2C电流放电至终止电压。	充放电试验可循环5次，放电时间不低于4.75h。 After 5 cycles, discharge time $\geq 4.75\text{h}$

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书		Doc No: *****
			REV: <u>A2</u> Date : <u>2025-10-14</u>

9.1.12	12 months at 25℃ 25℃储存12个月	A sample battery is stored for 12 months at 40-45% SOC under the condition of 25 ± 5℃ and 45-75% RH. Then standardly charge the cell at 23 ± 2℃ and discharge with 0.2 C to 2.5V. Repeat the charge and discharge 5 times. 电池在40-45%SOC下于25 ± 5℃和45-75% RH的环境下保存12个月。然后在23 ± 2℃用标准方法满充并用后0.2C恒流放电至2.7V。可以重复以上充放电循环5次。	充放电试验可循环5次，放电时间不低于4h。 After 5 cycles, discharge time ≥4h
9.1.13	Store at 70 ± 2℃ for 30D 70±2℃储存30D	After standard charging and storage at an ambient temperature of 70 ± 3℃ for 30 days, there will be no deformation, cracking, or leakage, and normal charging and discharging can be achieved. 标准充电后，在环境温度70±3℃的条件下存储30天后，外观无变形、无破裂、无泄漏，可正常充放电。	No deformation,cracking, or leakage, and normal charging and discharging can be achieved. 外观无变形、无破裂、无泄漏，可正常充放电。
9.1.14	Store at 80 ± 2℃ for 96H 80±2℃储存96H	After standard charging and storage at an ambient temperature of 80 ± 3℃ for 96 hours, there will be no fire, explosion, or leakage, and normal charging and discharging can be achieved. 标准充电后，在环境温度80±3℃的条件下存储96小时后，不起火、不爆炸、不漏液，可正常充放电	No deformation, cracking, or leakage, and normal charging and discharging can be achieved. 外观无变形、无破裂、无泄漏，可正常充放电。

9.2 Mechanical Performances/机械性能

No.	Items/项目	Test Method and Condition/测试方法及条件	Criteria/标准
9.2.1	Drop Test 跌落测试	After full charged. Then batteries were dropped from a height of 1m(3.28ft) to a concrete surface,Each battery is to be dropped once in the positive and negative directions of three mutually perpendicular mounting positions for a total of 6times, then rest for 1 hrs at 25±2℃. 电池组是满电状态，从 1m(3.28 英尺) 的高度自由跌落到水泥地面上；每个电池将沿着三个互相垂直轴的正负方向跌落 1 次，总共跌 6 次，然后 25±2℃静置观察 1hrs。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.2.2	Vibration Test 振动测试	After standard fully charge, the cell shall be fixed on a vibration table, then to be subjected to simple harmonic motion with an amplitude of 0.8 mm .Vibration frequency 7Hz-200Hz-7Hz Sine curve vibration 15min is 1 cycle, X、Y、Z axis test 12 cycles each. The cylindrical cell shall be vibrated in two directions along axis of the cylinder and the vertical directions of axis of the cylinder. 将按标准充电方式充满电的电芯固定在振动实验台上，进行振幅为0.8mm的振动，振动频率7Hz-200Hz-7Hz正弦曲线振动15min为1周期,X、Y、Z轴向各测试12周期。圆柱电芯按照其轴向和和径向两个方向进行振动实验。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.2.3	Shock Test	The fully charged battery is to be secured to the testing machine	The battery should be

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u> A2 </u> Date : <u> 2025-10-14 </u>
-----------------	---	--

	冲击测试	by means of a rigid mount which supports all mounting surfaces of the battery. Each battery shall be subjected to a total of three shocks of equal magnitude. The shocks are to be applied in each of three mutually perpendicular directions unless it has only two axes of symmetry in which case only two directions shall be tested. Each shock is to be applied in a direction normal to the face of the battery. For each shock the battery is to be accelerated in such a manner that during the initial 3 ms the minimum average acceleration is 75g (where g is the local acceleration due to gravity).The peak acceleration shall be between 125and175g. battery shall be tested at a temperature of 20±5℃ (68±9° F). 满充电芯固定于刚性支架且支架能充分支撑电芯所有表面，然后沿电芯3个互相垂直的面各施加一个同等大小的冲击力，每次冲击，电芯初始3ms内最小平均加速度应为75g，峰值加速度在125g至172g。测试在环境温度为20 ±5℃ (68 ±9° F)温度下进行。	no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.2.4	Crush Test 挤压测试	A fully charged battery is to be crushed between two flat surfaces. The force for the crushing is to be applied by a hydraulic ram or similar force mechanism. The flat surfaces are to be brought in contact with the battery and the crushing is to be continued until an applied force of 13 ±1 kN (3000 ±224 lbs) is reached. Once the maximum force has been obtained it is to be released. The battery is to be crushed with its longitudinal axis parallel to the fl at surfaces of the crushing apparatus. Each sample is to be subjected to a crushing force in only one direction. 电芯以标准方式满充，在电芯的两个最大平面之间通过液压油缸或相似装置施加一个挤压力，持续挤压直到挤压力达到13 ±1 kN，然后将压力释放。每个电芯只在一个方向上进行一次测试。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。

9.3 Safety Performances/安全性能

No.	Items/项目	Test Method and Condition/测试方法及条件	Criteria/标准
9.3.1	High temp. & High Humidity Test 高温高湿测试	A standardly charged battery is stored in an environment of 40 ± 2℃ and 93 ± 2% RH for 48 h, and then rest the battery in an environment of 23±2℃ for 2 h. 标准满充电芯在40±2℃和93±2% RH环境下储存48小时，然后将电芯在23±2℃环境下静置2小时。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
------------------------	--	--

9.3.2	Low Pressure Test 低气压测试	Fully charged sample battery is to be stored at an absolute pressure of 11.6 kPa (15240m Altitude Simulation) for 6 hours at 23±2℃. 23±2℃温度下，满充电芯在真空度为11.6kPa(模拟海拔15240m)下保持6h。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.3.3	Charge Over Voltage Protection 过压充电	After the battery pack is fully charged according to the standard charging method, continue to charge the maximum charging current constant current to n*6V or the maximum voltage value that the battery pack may withstand (whichever is higher), and maintain the voltage for constant voltage charging until the protection circuit starts. 将电池组按标准充电方式充满电后，继续以最大充电电流恒流充至 n*6V 或者电池组可能承受的最高电压值（两者取较高者），并保持该电压进行恒压充电，充电至保护电路起动。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.3.4	Charge Over Current Protection 过流充电	After the battery pack is discharged in the standard discharge mode, it is then charged at constant current with 1.5 times the over-current charging protection current until the protection circuit starts. 电池组按标准放电方式放完后，然后以 1.5 倍的过流充电保护电流进行恒流充电，直至保护电路起动。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.3.5	Over Discharge Protection 欠压放电	After the battery pack is fully charged according to the standard charging method, discharge it with its maximum continuous discharge current until the protection circuit starts, and then let it stand for 10min and continue to be fully charged according to the standard charging method. 将电池组按标准充电方式充满电后，以其最大持续放电电流放电至保护电路起动，然后静置 10min,继续按标准充电方法充满电。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆炸，不冒烟或漏液。
9.3.6	Over Load Protection 过载	After the battery pack is fully charged according to the standard charging method, discharge it with its maximum continuous discharge current until the protection circuit starts, and then let it stand for 10min and continue to be fully charged according to the standard charging method. 将电池组按标准充电方式充满电后，然后以 1.5 倍过流保护电流恒流放电至保护电路起动。	The battery should be no fire, no explosion or no leakage. 电池组应不起火，不爆炸，不漏液。
9.3.7	*Temp. Cycling Test *温度循环	A fully charged battery is stored in 75±2℃ environment for 6 h. Then, lower the temperature to -40±2℃ in 30 min and keep it for 6h. Repeat previous steps for 10 times and restore the temperature to 20±5℃. 电池在75℃±2℃搁置6h，然后在30min内将温度降至-40	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火，不爆

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: *****
		REV: <u>A2</u> Date : <u>2025-10-14</u>

		±2℃并恒温6h, 重复以上步骤10次, 最后恢复至20±5℃环境温度。	炸, 不冒烟或 漏液
9.3.8	External Short Circuit 外部短路	After the battery pack is fully charged according to the standard charging method, then short-circuit the positive and negative terminals of the battery pack, and the total external short circuit resistance is 80±20m Ω until the protection circuit starts. 将电池组按照标准充电方式充满电后, 短路电池组组的正负极端子, 外部短路总电阻为 80± 20m Ω ,直至保护电路起动。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火, 不爆炸, 不冒烟或 漏液。
9.3.9	Reverse Charge 反向充电	After the battery pack is fully charged according to the standard charging method, then reverse charge at the recommended charging current for 90 minutes. 将电池组按标准充电方式充满电后, 然后以推荐充电电流反向充电 90min。	The battery should be no fire, no explosion, no smoke or no leakage. 电池组应不起火, 不爆炸, 不冒烟或 漏液。
9.3.10	ESD Test	Method: 10times/pin , Frequency:1S/time Non-operating: Contact: ± 6KV ;Air: ± 10 KV 对电池组每个端子或者电路板的输出端子进行±6KV 接触放电测试各10 次和±10KV 空气放电测试各10 次, 每两次放电测试时间间隔1分钟.	No explosion and no fire. Its protection function shall not fail. if it is equipped with protection circuit. 电池组应不起火、不爆炸, 如有保护电路其保护功能不应失效。

10. Package/包装

According to the attached.
包装箱外应标明产品名称、型号、数量、毛重、制造厂商及联络地址、出厂日期；其包装储运的标志应符合 GB-191-7000 的规定。

11. Others/其他

11.1 Odor/气味

The battery do not product special smell or harmful odor.
本电池组不会产生特别或有害的气味

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	--	---

11.2 Protection for Environment/环境保护

The material used for packing should meet the criterion to protect environment RoHs 2.0、Reach.

封装电池组所用材料须全部符合环境保护标准 RoHs 2.0、Reach .

12. Handling Precautions and Guideline/操作及注意事项

12.1 Charge/充电

Charge current: Never out of the max charge current as mentioned in specification.

充电电流：不能超过规格书规定的最大的充电电流。

Charge voltage: Never out of the max charge voltage as mentioned in specification.

充电电压：不能超过规格书规定的最高的限制电压。

Charge temperature: Please refer to the temperature range as specification.

充电温度：电池充电温度必须按照规格书的温度范围执行。

Charge as constant current before constant voltage, Never reverse the charge mode.

先恒流后恒压方式充电，禁止颠倒的方式充电。如果电池正负极颠倒充电会带来危险。

12.2 Discharge current/放电电流

The discharge current is not allowed to out of max current as specification. Otherwise, the battery will be over heat and capacity fading.

电池放电电流不能超过规格书规定的最大放电电流，过大的电流放电会造成电池发热和容量衰减。

12.3 Discharge temperature/放电温度

Please refer to the temperature range as specification.

电池放电温度必须按照规格书的温度范围执行。

12.4 Over-discharge/过放电

It's workable if over charge and discharge for a short while but not allow to do it for a long time.

Over discharge may result in disappear self-energy. Please keep a certain electric quantity to prevent over discharge.

短时间的过充过放不影响电池的使用，但是长时间的过放电会影响到电池的功能失效，电池永久性不能适用，电池可能过放还有一个原因是自动能量的消失。预防电池过放的出现方法是电池应保持一定的电量。

12.5 Storing the Batteries/贮存电池

Please store the battery in the adequate temperature as mentioned in specification. When battery is delivered, if the capacity is about 60%. Suggest to recharge it after more than 6 months. When battery is charged full, Suggest to recharge it after more than 9 months.

电池贮存在规格书规定的温度范围内。如果电池出货时带电量在 60%左右，建议贮存超过六个月时，给电池充电；电池充满电后贮存时，建议贮存超过九个月时，给电池充电。

12.6 Storage/贮存

Store the battery in cool, dry and well-ventilated conditions.

电池贮藏在通风干燥的环境中。

Regulations vary for different countries. Dispose of in accordance with local regulations.

不同国家法规的不同，处理时根据当地的法规。

12.7 Other Chemical Reaction/其它化学反应

The battery performance will reduce if over time using or unused for a long time due to It's a reaction of chemical. In addition, the battery life will be shorten or injury or damage itself from electrolyte leakage, heating ignition or explosion for improper handling. It's necessary to replace battery if unable to charge for a long time even with proper way.

由于电池是利用化学反应的原理，所以随时间的增加电池的性能会降低，即使是存放很长一段时间而不使

0914O3(T8110-B)	PRODUCT SPECIFICATION 产品规格书	Doc No: ***** REV: <u>A2</u> Date : <u>2025-10-14</u>
-----------------	---	---

用。如果使用条件如充电、放电及周围环境温度等情形不在指定的使用范围内，也会缩短电池的使用寿命，或者产生漏液导致电池损坏。如果电池长周期不能充电，即使充电方法正确，也需要更换电池。

13. Warnings/使用警告

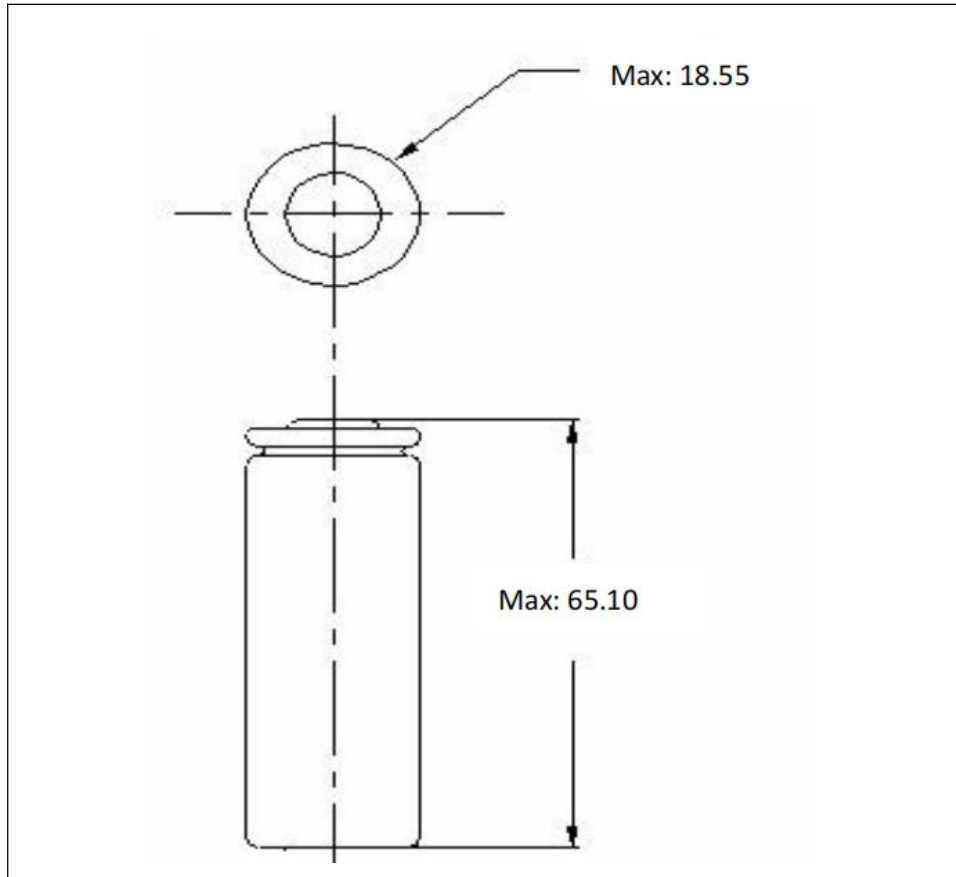
Please read the manual carefully before using it to ensure properly use.

为了使电池安全的使用及处理请在使用前认真的阅读操作说明.

- Do not make the battery exposure or thrown into fire.
不能把电池曝晒或丢在火中.
- Never reverse charge the battery.
电池充电时不能把正负极性装反.
- Never short circuit the battery.
避免短路电池.
- Avoid excessive physical shock or vibration.
避免过分的物理震动和冲击电池.
- Do not disassemble or deform the battery.
不能拆解或使电池变形.
- Never allow the battery to get wet or be immersed in water.
不能将电池浸入水中.
- Do not use different types of battery together.
不能将其它不同厂家、类型、型号的电池混合使用.
- Keep away from children.
禁止小孩接触电池.
- Charge at the appropriate conditions.
电池必须在合适的条件下充电.
- Never use the faulty charger to charging.
决不能用故障的充电器给电池充电.
- Never keep charging more than 24 hours.
电池持续充电不能超过 24H.

14. Cell Drawing/电芯绘图





15. Appendix/附录

1、NTC (SNS103B23435FE1L040E,10K $\pm$ 1%,B=3435,黑色线材 仙桥) RT 值表

R₂₅=10KΩ±1%

B_{25/85}=3435K±1%

T(℃)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(℃)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R (KΩ)
-40	212.0153	220.8889	230.1108	-1	28.6432	29.2447	29.8558
-39	199.8448	208.0846	216.6426	0	27.4021	27.965	28.5366
-38	188.4623	196.1166	204.0614	1	26.2226	26.7494	27.2840
-37	177.8114	184.9244	192.3028	2	25.1013	25.5943	26.0943
-36	167.8401	174.4525	181.3073	3	24.0350	24.4962	24.9639
-35	158.5003	164.6495	171.0202	4	23.0206	23.4522	23.8895
-34	149.7478	155.4682	161.3910	5	22.0554	22.4591	22.8680
-33	141.5416	146.8649	152.3732	6	21.1366	21.5143	21.8965
-32	133.8440	138.7994	143.9239	7	20.2617	20.6150	20.9723
-31	126.6200	131.2344	136.0033	8	19.4285	19.7588	20.0928
-30	119.8373	124.1355	128.5749	9	18.6346	18.9435	19.2555
-29	113.4661	117.4708	121.6048	10	17.8780	18.1667	18.4583
-28	107.4785	111.2110	115.0617	11	17.1567	17.4266	17.6989
-27	101.8490	105.3288	108.9166	12	16.4689	16.7210	16.9753
-26	96.5538	99.7989	103.1426	13	15.8129	16.0483	16.2857
-25	91.5709	94.5978	97.7150	14	15.1869	15.4067	15.6282
-24	86.8797	89.7039	92.6106	15	14.5894	14.7946	15.0012
-23	82.4614	85.0971	87.8082	16	14.0191	14.2105	14.4031
-22	78.2982	80.7585	83.2879	17	13.4744	13.6529	13.8325
-21	74.3738	76.6710	79.0312	18	12.9541	13.1205	13.2878
-20	70.6729	72.8183	75.0212	19	12.4570	12.6120	12.7677
-19	67.1815	69.1854	71.2420	20	11.9818	12.1262	12.2711
-18	63.8862	65.7584	67.6787	21	11.5276	11.6620	11.7967
-17	60.7748	62.5243	64.3177	22	11.0933	11.2182	11.3435
-16	57.8359	59.4711	61.1463	23	10.6779	10.7940	10.9102
-15	55.0589	56.5874	58.1525	24	10.2804	10.3882	10.4961
-14	52.4338	53.8628	55.3252	25	9.9000	10.0000	10.1000
-13	49.9513	51.2875	52.6542	26	9.5287	9.6286	9.7285
-12	47.6028	48.8524	50.1299	27	9.1734	9.2731	9.3729
-11	45.3803	46.5491	47.7432	28	8.8334	8.9327	9.0322
-10	43.2761	44.3694	45.4858	29	8.5079	8.6068	8.7059
-9	41.2833	42.3062	43.3500	30	8.1963	8.2946	8.3932
-8	39.3953	40.3523	41.3284	31	7.8979	7.9955	8.0936
-7	37.6060	38.5014	39.4142	32	7.6120	7.7089	7.8063
-6	35.9095	36.7474	37.6010	33	7.3380	7.4342	7.5308
-5	34.3005	35.0846	35.8830	34	7.0755	7.1708	7.2666
-4	32.7739	33.5077	34.2545	35	6.8238	6.9182	7.0131
-3	31.3251	32.0118	32.7103	36	6.5824	6.6759	6.7699
-2	29.9496	30.5923	31.2456	37	6.3510	6.4434	6.5365

PRODUCT SPECIFICATION
产品规格书

Doc No: *****

REV: A2 Date : 2025-10-14

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T()	R (K)	R (K)	R (K)
38	6.1289	6.2203	6.3124	72	2.0421	2.0952	2.1495
39	5.9158	6.0061	6.0972	73	1.9830	2.0351	2.0885
40	5.7114	5.8005	5.8905	74	1.9258	1.9770	2.0294
41	5.5150	5.6031	5.6920	75	1.8706	1.9209	1.9724
42	5.3265	5.4135	5.5013	76	1.8172	1.8666	1.9172
43	5.1455	5.2313	5.3179	77	1.7656	1.8141	1.8638
44	4.9716	5.0562	5.1417	78	1.7157	1.7634	1.8122
45	4.8045	4.8879	4.9723	79	1.6675	1.7143	1.7622
46	4.6439	4.7261	4.8093	80	1.6208	1.6668	1.7139
47	4.4896	4.5706	4.6526	81	1.5757	1.6208	1.6671
48	4.3412	4.4210	4.5018	82	1.5320	1.5764	1.6218
49	4.1985	4.2771	4.3567	83	1.4898	1.5333	1.5780
50	4.0612	4.1386	4.2170	84	1.4489	1.4917	1.5355
51	3.9292	4.0054	4.0826	85	1.4094	1.4513	1.4944
52	3.8021	3.8771	3.9531	86	1.3711	1.4123	1.4546
53	3.6798	3.7536	3.8285	87	1.3340	1.3745	1.4161
54	3.5621	3.6347	3.7084	88	1.2981	1.3379	1.3787
55	3.4488	3.5202	3.5927	89	1.2633	1.3024	1.3425
56	3.3396	3.4099	3.4812	90	1.2297	1.2680	1.3074
57	3.2345	3.3036	3.3738	91	1.1970	1.2347	1.2734
58	3.1332	3.2011	3.2702	92	1.1654	1.2024	1.2404
59	3.0356	3.1024	3.1703	93	1.1348	1.1711	1.2085
60	2.9416	3.0072	3.0740	94	1.1051	1.1408	1.1775
61	2.8509	2.9155	2.9811	95	1.0764	1.1114	1.1474
62	2.7635	2.8269	2.8915	96	1.0485	1.0829	1.1183
63	2.6793	2.7416	2.8051	97	1.0214	1.0552	1.0900
64	2.5980	2.6592	2.7216	98	0.9952	1.0284	1.0626
65	2.5196	2.5797	2.6411	99	0.9698	1.0024	1.0359
66	2.4439	2.5030	2.5633	100	0.9451	0.9771	1.0101
67	2.3709	2.4290	2.4883	101	0.9212	0.9526	0.9850
68	2.3005	2.3575	2.4158	102	0.8979	0.9288	0.9607
69	2.2324	2.2885	2.3457	103	0.8754	0.9058	0.9370
70	2.1668	2.2218	2.2781	104	0.8536	0.8834	0.9141
71	2.1034	2.1575	2.2127	105	0.8323	0.8616	0.8918

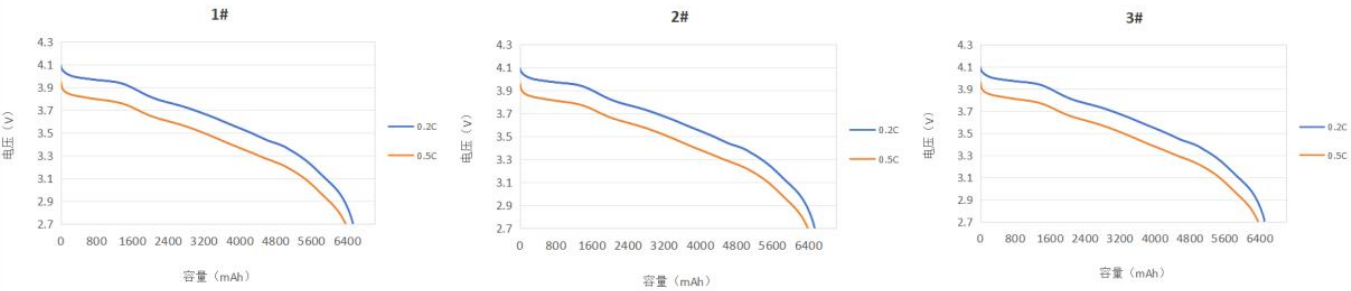
PRODUCT SPECIFICATION
产品规格书

Doc No: *****
REV: A2 Date : 2025-10-14

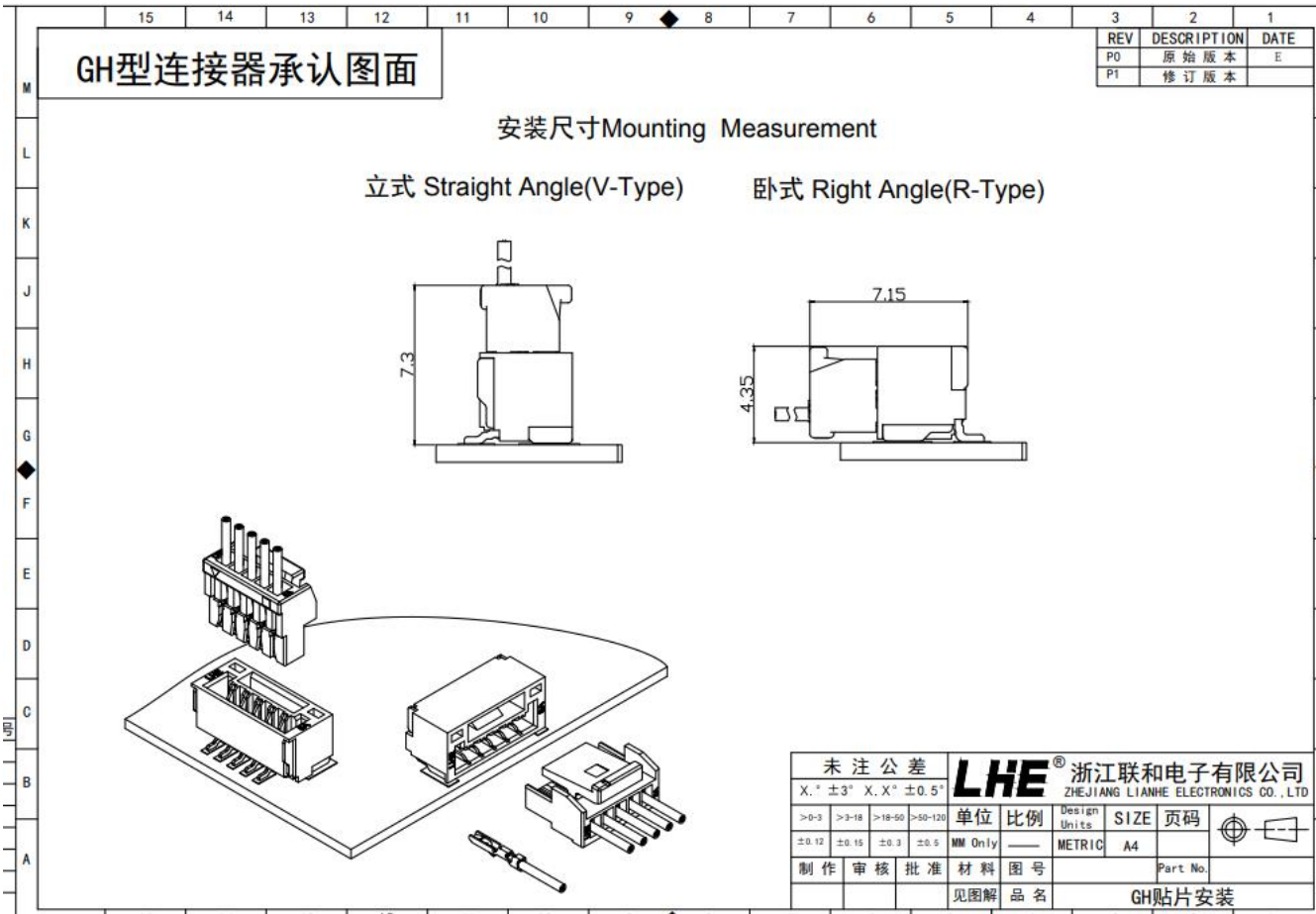
0914O3(T8110-B)

2. 放电曲线

倍率放电曲线图



3. Connector Spec. 连接器规格书



PRODUCT SPECIFICATION
产品规格书

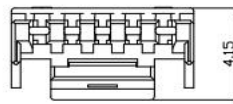
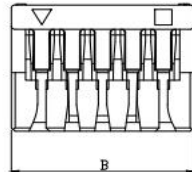
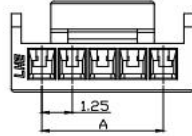
Doc No: *****

REV: A2 Date: 2025-10-14

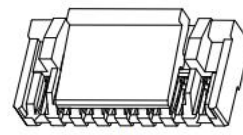
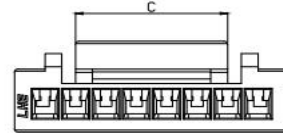
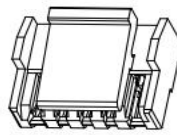
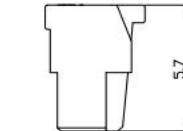
0914O3(T8110-B)

GH型连接器承认图面

REV	DESCRIPTION	DATE
P0	原始版本	E
P1	修订版本	



2~6P



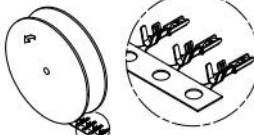
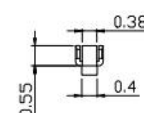
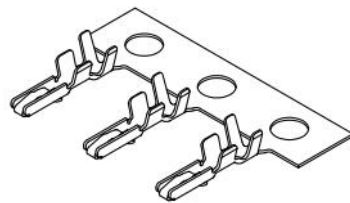
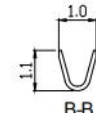
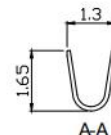
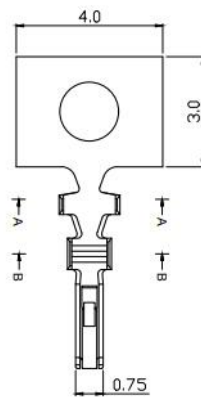
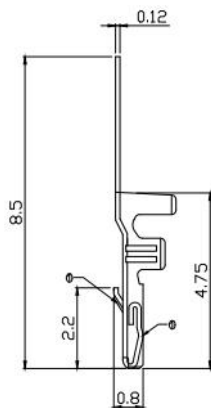
7~15P

Poles	Part No.	Dimensions mm	A	B	C
2	A1256-H02	GH-2Y	1.25	3.75	1.95
3	A1256-H03	GH-3Y	2.5	5.00	3.20
4	A1256-H04	GH-4Y	3.75	6.25	4.25
5	A1256-H05	GH-5Y	5.0	7.50	4.25
6	A1256-H06	GH-6Y	6.25	8.75	6.20
7	A1256-H07	GH-7Y	7.5	10.00	6.20
8	A1256-H08	GH-8Y	8.75	11.25	6.20
9	A1256-H09	GH-9Y	10.0	12.50	6.20
10	A1256-H10	GH-10Y	11.25	13.75	8.15
11	A1256-H11	GH-11Y	12.5	15.00	8.15
12	A1256-H12	GH-12Y	13.75	16.25	8.15
13	A1256-H13	GH-13Y	15.0	17.50	8.15
14	A1256-H14	GH-14Y	16.25	18.75	8.15
15	A1256-H15	GH-15Y	17.5	20.00	8.15

1	Housing 胶壳		PBT (UL94V-0)		1		
序号	图 号	名 称	材 料	数 量	附 注		
未 注 公 差			LHE® 浙江联和电子有限公司				
X.° ±3° X.X° ±0.5°			ZHEJIANG LIANHE ELECTRONICS CO., LTD				
>0-3	>3-18	>18-50	>50-120	单位	比例	Design Units	SIZE 页码
±0.12	±0.15	±0.3	±0.5	MM Only	—	METRIC	A4
制作	审核	批准	材 料	图 号	Part No.		
见图解			品 名	GH-NY			

GH型端子承认图面

REV	SYM	REVISION RECORD	DR	APPR.	DATE
A/0		原始版本			A/0
A/1	①	增加零件名称、增加尺寸、增加规格书内容	WZY		2014/02/05



主要技术参数
Main Specifications
线数 (poles): 2 to 15P
额定电流 (Current rating): 1.0A AC, DC (AWG#28)
额定电压 (Voltage rating): 50V AC, DC
温度范围 (Temperature range): -25°C to +85°C
接触电阻 (Contact resistance): ≤30mΩ
绝缘电阻 (Insulation resistance): ≥100MΩ
耐电压 (Withstand voltage): 500V AC/instant
适用线规 (Applicable wire): AWG #30 to #26
线材绝缘外径 (Wire insulation O.D.): 0.7 to 1.0mm

Part No.		Material	Finish	Qty/reel					
A1256-TP2	GH-T11镀锡	Phosphor Bronze	TIN	13000pcs					
A1256-TP7	GH-T11镀全金	Phosphor Bronze	Gold-Nickel	13000pcs					
未注公差		LHE [®] 浙江联和电子有限公司 ZHEJIANG LIANHE ELECTRONICS CO., LTD							
X.° ±3° X.° X.° ±0.5°									
>0-3	>3-18	>18-50	>50-120	单位	比例	Design Units	SIZE	页码	
±0.12	±0.15	±0.3	±0.5	MM Only	—	METRIC	A4		
制作	审核	批准	材料	图号	Part No.				
见图解		品名	GH-T						

文件编制/修订记录

No.	版次变更	修订日期	变更方式	修订内容摘要	修订者
1	V1.0	2025.4.3	新建		Liam.Li1
2	V2.0	2025.4.10	修订	删去质保期	Liam.Li1

SAFETY DATA SHEET

SDS 报告

Client Name : Anker Innovations Limited
委托单位 : 安克创新有限公司

Client Address : Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18
单位地址 : Harcourt Road, Hong Kong
香港金钟夏慼道 18 号海富中心 2 座 8 楼 56 室

Product Name : Rechargeable Li-ion Battery
产品名称 : 可充电式锂离子电池

Effective Date : 2025.01.01
生效日期

Shenzhen Anbotek Compliance Laboratory Limited
深圳安博检测股份有限公司



SAFETY DATA SHEET

安全数据清单

According to Hazard Communication standard (OSHA HCS) 29 CFR 1910.1200

1. Identification 鉴定

Sample name:	Rechargeable Li-ion Battery
样品名称	可充电式锂离子电池
Sample model:	102231/2P
样品型号	
Rating:	3.8V/1460mAh/5.548Wh
规格	Weight重量: 26.59g
Manufacturer:	Anker Innovations Limited
制造商	安克创新有限公司
Address:	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road,
制造商地址	Hong Kong
	香港金钟夏悊道18号海富中心2座8楼56室
Factory:	Xinyu Ganfeng Electronics Co., LTD.
工厂	新余赣锋电子有限公司
Address:	2668 Nanyuan Road, high tech Development Zone, Xinyu City,
工厂地址	Jiangxi Province
	江西省新余市高新开发区南源路2668号
Telephone no:	16620796266
联系电话	
Fax:	/
传真	
E-mail:	darren.li@anker.com
邮箱	

Written by
编写

莫健洲

Approved by
签发

朱浩



2. Hazard(s) identification 风险识别

(a) Preparation hazards and classification 产品的危害和分类

No harm at the normal use. When the battery is in extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur.

正常使用没有危害。当电池在挤压变形、高温环境、过载、短路状态,或拆卸电池,都有可能引发火灾和化学烧伤

(b) Primary Route(s) of Exposure 主要的接触途径

These chemicals are contained in a sealed stainless steel enclosure or a sealed aluminums foil pocket. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by inhalation, ingestion, eye contact and skin contact.

电池应该包含在一个密封的不锈钢外壳里或一个密封的铝箔口袋。只有当电芯被机械地、过热地或电气地破坏的情况下,才发生暴露的风险。如果发生这种情况,暴露的电解质溶液可能会有吸入,摄入,与眼睛接触和皮肤接触等危险

(c) Potential Health Effects 潜在的健康影响:

ACUTE (short term)急性(短期): See section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns.

参考第 8 节的接触控制,在电池已破裂的情况下,电池内含有的电解质溶液是腐蚀性的,可导致灼伤。

Inhalation 吸入: A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize little gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition.

电池不挥发气体,除非它被破坏。损坏的电池会挥发少量气体,会刺激呼吸道或引起过敏反应。

Ingestion 摄入: Swallowing battery will be damaged to the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause permanent damage.

吞食电池会损坏呼吸道,引起化学性灼伤,严重时会造成永久性损伤。

Skin 皮肤: In normal condition, contact between the battery and skin will not cause any harms. Contact with a damaged battery may cause skin allergies or chemical burns.

正常情况下,电池和皮肤接触不会造成任何危害。接触损坏的电池可能导致皮肤过敏或化学烧伤。

Eye 眼睛: In normal condition, contact between the battery and eyes will not cause any harms. However, the gas volatilize from a damaged battery may be harmful to eyes.

正常情况下,电池不会对眼睛造成任何危害。然而,从损坏的电池里面挥发出来的气体可能会对眼睛有害。



CHRONIC (long term)慢性(长期): See Section 11 for additional toxicological data.

参考第 11 节的毒理学数据

(d)Medical Conditions Aggravated by Exposure 接触导致医疗风险加重

No information available.无可利用信息

(e)Reported as carcinogen 致癌物报告

No information available.无可利用信息

GHS Label elements, including precautionary statements GHS 标签要素,包括预

防性的语句:



GHS02



GHS05



GHS06

Signal word 信号词: Warning 警告

Hazard statement(s)风险声明:

H242:Heating may cause a fire 加热可能引起火灾;

H311: Toxic in contact with skin 与皮肤接触会中毒;

H314:Causes severe skin burns and eye damage 引起严重的皮肤灼伤和眼睛损伤;

H302:Harmful if swallowed 吞食后对人体有害;

H332:Harmful if inhaled 吸入后对人体有害;

Precautionary statements 预防性语句:

Prevention 预防:

P264 Wash thoroughly after handling 操作后彻底清洗.

P270 Do not eat, drink or smoke when using this product 使用产品时不要进食, 饮水或吸烟.

P280 Wear protective gloves/protective clothing/eye protection/face protection 戴防护手套/防护服/保护眼睛/面部防护.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray 避免吸入灰尘/烟气/天然气/雾/蒸气/喷雾.

P271 Use only outdoors or in a well-ventilated area 仅在室外使用或在通风良好的区域使用.

Response 反应:

P312:Call a Poison center or doctor/physician if you feel unwell.

如果你感觉不舒服,呼叫解毒中心或医生

P302+P350-IF ON SKIN: Gently wash with plenty of soap and water

如果接触皮肤, 要用大量的肥皂和水来清洗

P301+P330+P331-IF SWALLOWED: rise mouth. Do NOT induce vomiting

如误吞: 漱口。不要呕吐

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

如误入眼睛: 用水冲洗几分钟。如果现在方便, 摘下隐形眼镜, 继续冲洗。



P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

如果吸入:远离人群,呼吸新鲜空气,保持舒适。

Disposal 处理:

P501: Dispose of contents/container in accordance with local/national regulations.

按照当地/国家法规处理内容物/容器

Hazards not otherwise classified (HNOC)未分类危害

Not Applicable不适用

3. Composition/Information on Ingredients 原料成分信息

(a) 综合信息 Mixtures information

Chemical Name 化学名称	Percent of Content 含量百分比 (%)	CAS No. CAS 编号
Lithium Cobalt Oxide 钴酸锂(LiCoO ₂)	29	12190-79-3
Graphite 石墨(C)	17	7782-42-5
Carbon black 炭黑(C)	4	1333-86-4
Carbonate, methyl ethyl 碳酸甲乙酯	10	623-53-0
Lithium hexafluorophosphate 六氟磷酸锂(LiPF ₆)	9	21324-40-3
Copper 铜(Cu)	16	7440-50-8
Nickel 镍 (Ni)	4	7440-02-0
Aluminum 铝(Al)	11	7429-90-5

4. First-Aid Measures 急救措施

(a) Description of first aid measures 急救措施的描述

Inhalation 吸入: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice / attention if you feel unwell.

将患者转移到空气新鲜处,保持休息,呼吸舒畅的姿势。如感觉不适,立即就诊

Skin contact 皮肤接触: Remove contaminated clothes and rinse the skin with plenty of water. Get medical advice /attention if you feel unwell.

去除被污染的衣服,用大量的水冲洗皮肤。如感到不适,立即就诊

Eye contact 眼睛接触: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical advice / attention if you feel unwell.

用水小心冲洗几分钟。如果方便,取出隐形眼镜,继续冲洗。如果感到不适,立即就诊。

Ingestion 摄入: Have victim drink 60 to 240 mL (2-8 oz.) of water. and DO NOT induce vomiting. Get medical aid.



受害者饮 60 至 240 毫升的水（2-8 盎司），并且不要呕吐。

如感到不适，立即就诊

(b) Most important symptoms/effects, acute and delayed 最重要的症状和效果,急性和延迟

Contact with internal components may cause allergic skin sensitization (rash) and irritate eyes, skin, nose, throat, respiratory system. Cobalt and Cobalt compounds are considered to be possible human carcinogen(s).

接触内部组件可能会导致皮肤过敏(皮疹)和刺激眼睛、皮肤、鼻子、喉咙、呼吸系统。钴和钴化合物被认为可能是致癌物。

(c) Immediate medical attention and special treatment 立即就医和特殊处理

No information available.无可用信息

5. Fire-Fighting Measures 消防措施

(a) Extinguishing media 灭火剂

Suitable extinguishing media 合适的灭火剂: Use foam, dry powder or dry sand, CO₂ as appropriate.使用泡沫、干粉或干砂,二氧化碳灭火剂。

Unsuitable extinguishing media 不合适的灭火剂: No information available.无可用信息。

(b) Special hazards arising from the chemical 化学物品的特殊危害

Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to a fire situation. This could result in the release of flammable or corrosive materials. Hazardous combustion products: CO, CO₂, Metal oxides, Irritating fumes.

在火灾情况下,电池可能破裂并释放危险的分解产物暴露在火灾里。这可能会导致释放易燃或腐蚀性材料。危险燃烧产物: 一氧化碳, 二氧化碳, 金属氧化物, 刺激性烟雾。

(c) Special protective equipment and precautions for fire-fighters

特殊防护设备和消防队员的预防措施

Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equip with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

消防人员必须穿防火防护设备和适当的呼吸器。工作人员必须配备完整的面具或独立的呼吸器。工作人员必须穿可以防御火灾和有毒气体的衣服。在上风方向灭火。移开容器, 开放空间。喷水在容器壁来保持冷却,直到完成灭火。

6. Accidental Release Measures 泄露应急处理

(a) Personal precautions, protective equipment and emergency procedures

个人防护措施,防护设备和应急程序

If the Lithium battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area, dispose the case after the batteries cool and vapors



dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors.

如果锂聚合物电池材料泄漏出来,将这区域人员迅速转移,直到烟雾消散。提供最大限度的通风,清除有害气体。第一反应是离开此区域,接下来的处理是冷却电池和消散气体,提供最大限度的通风,避免皮肤和眼睛接触或吸入有害气体。

(b) Environmental Precautions 环境预防措施

Prevent material from contaminating soil and from entering sewers or waterways.
防止物质污染土壤和进入下水道或排水沟。

(c) Methods and materials for containment and cleaning up 控制和清理材料的方法

If battery casing is dismantled, small amounts of electrolyte may leak. Collect all released material in a plastic lined container. Dispose off according to the local law and rules. Avoid leached substances to get into the earth, canalization or waters.
如果电池壳被拆除,少量的电解质可能会泄漏。收集所有已释放的材料在一个塑料内衬容器。根据当地法律和规则处理掉。避免浸出物质进入土壤,渠道或水域

7. Handling and Storage 处置和储存

(a) Precautions for safe handling 安全操作注意事项

Always follow the warning information on the batteries and in the manuals of devices. Only use the recommended battery types. Keep batteries away from children. For devices to be used by children, the battery casing should be protected against unauthorized access. Unpacked batteries shall not lie about in bulk. In case of battery change always replace all batteries by new ones of identical type and brand. Do not swallow batteries. Do not throw batteries into water. Do not throw batteries into fire. Avoid deep discharge. Do not short-circuit batteries Use recommended charging time and current.

始终遵循电池和设备的警告信息。只使用推荐的电池类型。让孩子远离电池。对于被儿童使用的设备,电池外壳应该有相应的防护。散装电池不应处于无包装状态。更换电池,总是用相同类型和品牌新电池进行替换。不允许吞咽电池。不要把电池扔进水里。不要把电池扔进火里。避免深度放电。不要使用短路电池,请使用推荐的充电时间和电流。

(b) Conditions for safe storage, including any incompatibilities

安全储存条件,包括任何不兼容问题

If the Lithium battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium battery periodically. Operating temperature: Charge: 0°C~45°C. Discharge: -10°C~50°C. And recommended at -10°C~45°C for 1 month storage, at -10°C~35°C for 3 months storage. The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more. The voltage for a long time storage shall be 3.7V~4.2V range per cell block. Do not storage Lithium battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children.

如果锂聚合物电池长期储存超过 3 个月,建议定期充电。充电温度:0°C~45°C。放电温度:-10°C~50°C,并建议在-10°C~45°C 储存 1 个月,在-10°C~35°C 储存 3 个月。储存后的



容量恢复率(满充状态的 50%)在出货前应该接近 80%。长时间储存的电压控制在 3.7V~4.2V。不要把锂聚合物电池随意储存在盒子里或抽屉里,因为与其他金属物体接触容易造成短路。放在儿童接触不到的地方。

8. Exposure Controls/Personal Protection 接触控制/个人防护

(a) Engineering Controls 工程控制

Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.

使用局部通风系统或其他工程控制,以控制粉尘,雾,烟雾和蒸气来源。勿靠近热源和明火,储存在阴凉,干燥的地方。

(b) Personal Protective Equipment 个人防护设备

Respiratory Protection 呼吸保护: Not necessary under normal conditions. **Skin and body Protection:** Not necessary under normal conditions, Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.

在正常使用情况下没有必要进行皮肤及身体防护:如果处理一个开放或泄漏的电池需戴氯丁或丁腈橡胶手套

Hand protection 手保护: Wear neoprene or natural rubber material gloves if handling an open or leaking battery.

如果处理一个开放或泄漏的电池需戴氯丁或丁腈橡胶手套。

Eye Protection 眼睛保护: Not necessary under normal conditions, wear safety glasses if handling an open or leaking battery.

在正常情况下没有必要保护。如果处理一个开放或泄漏的电池需佩戴安全眼镜。

(c) Other Protective Equipment 其他防护设备

Have a safety shower and eye wash fountain readily available in the immediate work area.

不要在工作区域饮食,喝酒或吸烟。保持良好的工作环境。

(d) Hygiene Measures 卫生措施

Do not eat, drink, or smoke in work area. Maintain good housekeeping.

不要在工作区域饮食,喝酒或吸烟。保持良好的工作环境。

9. Physical and Chemical Properties 物理和化学特性

(a) Appearance 外观	Solid 固体
(b) Odor 气味	Monotony 无味
(c) Odor threshold	Not available.
(d) pH	Not available.
(e) Melting point/freezing point	Not available.
(f) Initial boiling point and boiling range	Not available.
(g) Flash poin	Not available.
(h) Evaporation rate	Not available.
(i) Flammability	Not available.
(j) Upper/lower flammability or explosive limits	Not available.



(k)Vapor pressure	Not available.
(l)Vapor density	Not available.
(m)Relative density	Not available.
(n)Solubility(ies)	Not available.
(o)Partition coefficient: n-octanol/water	Not available.
(p)Auto-ignition temperature 自燃温度	130°C
(q)Decomposition temperature	Not available.
(r)Viscosity	Not available.

10. Stability and Reactivity 稳定性和反应性

(a) Reactivity 反应性

Stable under recommended storage and handling conditions.

在推荐的条件下储存和处理较为稳定。

(b) Chemical stability 化学的稳定性

Stable under normal conditions.

在正常情况下稳定

(c) Possibility of hazardous reactions 危险反应的可能性

When heated above 150°C the risk of rupture occurs. Due to special safety construction, rupture implies cont release of pressure without ignition.

当加热到150°C以上, 会发生破裂的风险。由于特殊的安全结构, 破裂意味着控制释放的压力, 没有着火

(d) Conditions to avoid 避免条件

Do not subject Lithium battery to mechanical shock. Keep away from open flames, high temperature.

不要对锂聚合物电池进行机械冲击。远离明火,高温

(e) Incompatible materials 不兼容的材料

Strong oxidizer, strong acid.

强氧化剂、强酸。

(f) Hazardous decomposition products 分解产品的危险

Under fire conditions, the electrode materials can form carcinogenic nickel and cobalt oxides.

在火灾情况下,电极材料可以形成致癌的镍和氧化钴。

11. Toxicological Information 有害物质信息

(a) Information on the likely routes of exposure 接触途径的相关信息

Inhalation: Inhalation of a large number of vapors or fumes released due to heat may cause respiratory.

Ingestion 吸入: Ingestion of battery contents may cause mouth, throat and intestinal burns and damage.吸入大量蒸汽或烟雾释放的热量可能导致呼吸不畅。

Skin contact 摄入: Contact with battery electrolyte may cause burns and skin irritation.摄入电池内部物质可能会引起口腔、咽喉和肠道烧伤。



Eye contact 眼睛接触: Contact with battery electrolyte may cause burns. Eye damage is possible. 接触电池电解液可能引起烧伤, 甚至损伤眼睛。

Under normal conditions (during charge and discharge) release of ingredients does not occur. If accidental release occurs see information in section 2, and 4. Swallowing of a battery can be harmful. Call the local Poison Control Centre for advice and follow-up.

在正常情况下(在充电和放电时)不会释放成分。如果发生意外释放请参考第 2 节和第 4 节信息。吞咽电池是有害的。请致电当地中毒控制中心进行咨询和跟进。

(b) Information on toxicological characteristics 毒理性特征信息

Acute toxicity 急性毒性: No data available. 无可用信息

Skin corrosion/irritation 皮肤腐蚀/刺激: The liquid in the battery irritates. 电池液体的刺激

Serious eye damage/irritation 严重眼损伤/刺激: The liquid in the battery irritates. 电池液体可能导致一些人过敏

Respiratory sensitization 呼吸道过敏: The liquid in the battery may cause sensitization to some person. 电池液体可能导致一些人过敏

skin sensitization 皮肤过敏: The liquid in the battery may cause sensitization to some person. 电池液体可能导致一些人过敏

Carcinogenicity 致癌性: Cobalt and Cobalt compounds are considered to be possible

human carcinogen(s). 钴和钴化合物被认为可能是致癌物

Germ Cell Mutagenicity 生殖细胞诱变: No data available. 无可用信息

Reproductive Toxicity 生殖毒性: No data available. 无可用信息

STOT-Single Exposure 暴露: No data available. 无可用信息

STOT-Repeated Exposure 暴露: No data available. 无可用信息

Aspiration Hazard 吸入性危害物质: No data available. 无可用信息

12. Ecological Information 生态信息

(a) Ecotoxicity 生态毒性

Water hazard class 1(Self-assessment): slightly hazardous for water.
水危害等级 1(自我评估): 对水有轻微危害。

(b) Persistence and Degradability 持久性和降解性

No information available. 无可用信息

(c) Bioaccumulative potential 生物体内积聚的潜力

No information available. 无可用信息

(d) Mobility in soil 土壤迁移率

No information available. 无可用信息

(e) Other adverse effects 其他不利影响

No information available. 无可用信息

13. Disposal Considerations 处理注意事项

(a) Safe handling and methods of disposal 安全处理和处置的方法



Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery.

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations. The potential effects on the environment and human health of the substances used in batteries and accumulators;

the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling.

处理应依照适用的地区,国家和地方法律法规,地方性法规可能比区域或国家有更严格的要求。

产品处理建议:遵守当地、州和联邦法律法规。

不把废弃电池和蓄电池作为未分类的垃圾处理,参与他们的单独收集,以便于处理和回收利用。

14. Transport Information运输信息

Label for conveyance 运输标签	Lithium Battery Label 锂电池标签
UN Number UN 编号	UN 3480 or UN 3481 UN 3480 或 UN 3481
Transport hazard class(es) 运输风险类别	9
Packing group 包装等级	--
Marine pollutant 海洋污染物	No 无污染
UN Proper shipping name 联合国运输专用名称	Lithium ion Batteries (Including lithium ion polymer batteries) 锂离子电池(包括锂离子聚合物电池) Lithium ion Batteries packed with equipment (Including lithium ion polymer batteries) 锂离子电池和设备包装在一起(包括锂离子聚合物电池) Lithium ion Batteries contained in equipments (Including lithium ion polymer batteries) 设备里内含锂离子电池(包括锂离子聚合物电池)
ICAO/IATA	Can be shipped by air in accordance with international Civil Aviation Organization (ICAO), TI or International Air Transport Association (IATA) DGR 66 th Packing Instructions Section IB of 965 or Section II of 966~967 appropriately. 可根据国际民用航空组织(ICAO), TI 或国际航空协会(IATA) DGR 66 版本包装说明 965 第 IB 节规定或 966~967 第 II 节规定进行空运



IMDG CODE	International Maritime Dangerous Goods Code under Special Provision 188 IMDG CODE (Amdt 42-24) 《国际海运危险货物规则》特殊规定 188 IMDG CODE (Amdt 42-24)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road under Special Provision 188 《国际危险货物道路运输欧洲协定》(ADR)根据特殊规定 188
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail under Special Provision 188 《国际危险货物铁路运输欧洲协定》(RID)根据特殊规定 188
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code) 散装运输	No information available. 无可用信息。

The dangerous goods regulations require that each battery design be subject to tests contained in Section 38.3 of the UN Manual of Tests and Criteria prior to being offered for transport.
危险品规例规定, 运输前, 每一个电池设计须通过联合国试验和标准手册38.3节所载的测试。

15. Regulatory Information 监管信息

《Dangerous Goods Regulations》
《危险物品规则》
《Recommendation on the Transport of Dangerous Goods Model Regulations》
《对危险货物运输的有关规定的建议》
《International Maritime Dangerous Goods》
《国际海运危险货物规则》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《危险品安全运输技术指令》
《Classification and code of dangerous Goods》
《危险货物分类和品名编号》
《Consumer Product Safety Act》(CPSA)
《消费产品安全法》
《Federal Environmental Pollution Control Act》(FEPCA)
《联邦环境污染控制法》
《Resource Conservation and Recovery Act》(RCRA)
《资源保护及恢复法案》
《European Agreement concerning the International Carriage of Dangerous》
《国际危险货物道路运输欧洲协定》
《Regulations concerning the International Carriage of Dangerous》
《国际危险货物铁路运输欧洲协定》
In according with all Federal, State and local laws.
根据所有联邦、州和地方法律。



16. Other Information 其他信息

The information above is believed to be accurate and represents the best information currently available to us. However, this document makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

以上信息被认为是准确的, 代表了我们目前可获得的最佳信息。然而, 本文没有对商品性能保证或任何其他保证, 包括明示或暗示, 对这类信息的使用我们不承担责任。用户应做出自己的调查, 以确定是否适合其特定用途的信息。尽管在准备本文所载数据时已采取合理的预防措施, 但这些数据仅供您参考、考虑和调查。这个化学品安全技术说明书为本产品提供了安全操作指南和使用指南, 它并不能对所有可能发生的情况提供建议, 因此, 您特殊使用该产品应先进行评估, 以确定是否需要额外的预防措施。

* The SDS is prepared based on the information provided by client. The contents and formats of this SDS are revised as per client's request.

这份安全数据表是根据客户提供的信息编辑, 其内容和格式按客户要求来修订。

-- End of report --

-- 报告结束 --

