

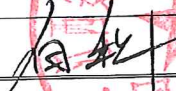
	江 西 安 驰 新 能 源 科 技 有 限 公 司 JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD	编号/NO:ACQI-DP-RD/013
	产品规格书—IFP48173115-100Ah Product Specification For IFP48173115-100Ah	版本/VER.:A0

方形动力锂离子电池规格书

Specification For Li-ion Prismatic Power Cell

电芯型号 : IFP48173115-100Ah

Cell Type: IFP48173115-100Ah

编制/日期 Prepared/Date	审核/日期 Checked/Date	批准/日期 Approved/Date	生效日期 Effective date
周焘	李玉龙		2021/5/24



版本/VER.:A0

Page 2 of 14



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

Contents 目录

- 1 Preface 前言
- 2 Definition 定义
 - 2.1 Rated capacity 额定容量
 - 2.2 Standard charge method 标准充电方式
 - 2.3 Standard discharge method 标准放电方式
 - 2.4 End of life 寿命终止
- 3 Executive standard 执行标准
- 4 Cell type,size and performance 电芯型号、尺寸及性能
 - 4.1 Description and model 电芯说明及型号
 - 4.2 Cell size (Including blue film) 电芯尺寸 (包括蓝膜)
- 5 Cell parameters 电芯参数
 - 5.1 Basic parameters 1 基本参数1
 - 5.2 Basic parameters 2 基本参数2
 - 5.3 SOC-OCV
- 6 Charging and Discharging Strategy 充放电策略
- 7 Storage, quality guarantee period 存储, 保质期
- 8 Warning and cautions in handling the lithium-ion cell 电芯使用时警告事项及注意事项
- 9 Contact information 联系方式



江西安驰新能源科技有限公司
JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

1 Preface 前言

This specification describes the type and size, performance, technical characteristics, warning and caution of the prismatic power cell. The specification only applies to IFP48173115-100Ah cell supplied by JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

本标准描述了方形动力电芯的外型尺寸、特性、技术要求及注意事项。本标准适用于江西安驰新能源科技有限公司生产的IFP48173115-100Ah电芯。

2 Definition 定义

2.1 Rated capacity:

额定容量:

Rated capacity=100.0Ah: The capacity obtained when a cell is discharged at 1C to 2.5 volts at $25 \pm 2.0^\circ\text{C}$

额定容量 Cap=100.0Ah, 指在 $25 \pm 2.0^\circ\text{C}$ 环境下, 以1C放电至终止电压为2.5V 时的容量。

2.2 Standard charge method:

标准充电方式:

At $25 \pm 2.0^\circ\text{C}$, charge to 3.65V at a constant current of 1C, and then, charge continuously with constant voltage of 3.65V until the charge current drops below 0.05C.

在 $25 \pm 2.0^\circ\text{C}$ 环境下, 以 1C 的电流恒流充电至单体电芯电压 3.65 V 后, 转为恒压 3.65 V 充电, 至充电电流小于 0.05C 时, 停止充电。

2.3 Standard discharge method:

标准放电方式:

At $25 \pm 2.0^\circ\text{C}$, discharge to 2.5 V at a constant current of 1C.

在 $25 \pm 2.0^\circ\text{C}$ 环境下, 以 1C 的电流恒流放电至电压 2.5V

2.4 Standard discharge method:

寿命终止:

From the date of production to the time when the capacity decreases to 80% of the initial capacity
从生产之日起到容量衰减到初始容量80%的时间。

3 Executive standard 执行标准

GB/T 31467.3-2015 Lithium-ion power battery packs and systems for electric vehicles
Part 3: Safety requirements and test methods

GB/T 31467.3-2015 电动汽车用锂离子动力蓄电池包和系统第3部分: 安全性要求与测试方法

GB/T 31484-2015 Cyclic Life Requirements and Test Method of Power Batteries for Electric Vehicles

GB/T 31484-2015 电动汽车用动力蓄电池循环寿命要求及试验方法

GB 38031-2020 Electric Vehicles Traction Battery Safety Requirements

GB 38031-2020 电动汽车用动力蓄电池安全要求

GB/T 31486-2015 Electrical Performance Requirements and Test Method of Power Batteries for Electric Vehicles

GB/T 31486-2015 电动汽车用动力蓄电池电性能要求及试验方法



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

编号/NO:ACQI-DP-RD/013

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

版本/VER.:A0

4 Cell type, bar code and size 电芯型号及尺寸

4.1 Description and model 电芯说明及型号

Description: Square Li-ion rechargeable cell

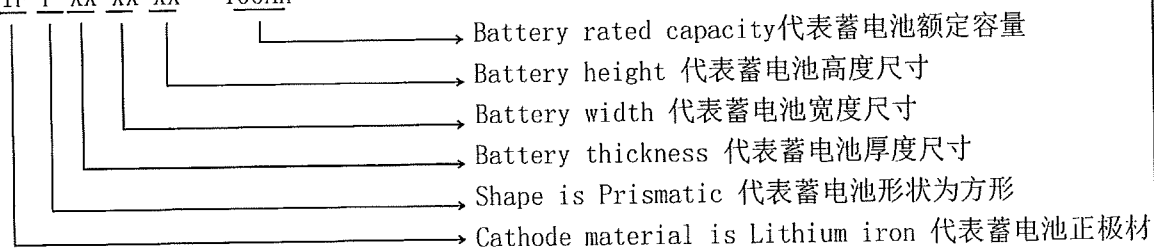
Model: IFP48173115-100Ah

IFP48173115-100Ah 型号的方形锂离子二次电芯

Product Model Meaning 产品型号含义:

IFP48173115-100Ah

IF P XX XX XX - 100Ah



料为磷酸铁锂

4.2 Cell size 电芯尺寸 (含蓝膜+顶贴片+底贴片)

ITEM 电池项目	Parameter 参数
Battery width 电池宽度 (mm)	173.9±0.5
Battery height 电池高度 (No Pole 不包含极柱, mm)	115.6±0.5
Battery height 电池高度 (Including Pole 包含极柱, mm)	121.1±0.5
Battery thickness 电 池 厚 度 (200N, 100%SOC, mm)	49.3±0.5
Battery thickness 电 池 厚 度 (200N, 15%SOC, mm)	48.8±0.5
Pole size 极柱尺寸	28.6X26.6
Pole distance 极板间距	129.3±0.5



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Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

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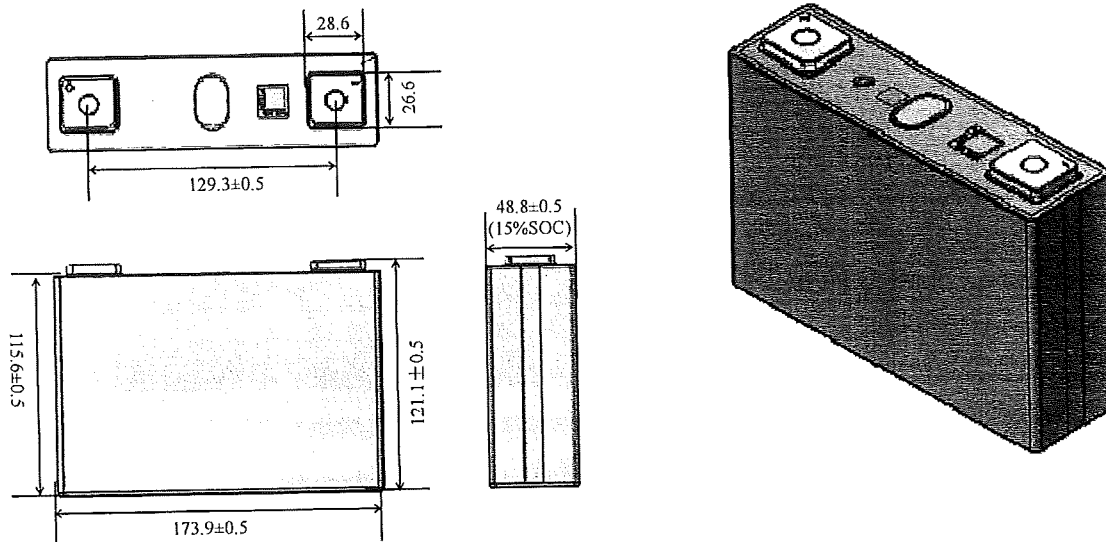


图1 电芯尺寸 (含蓝膜+顶贴片+底贴片)

5 Cell parameters 电芯参数

5.1 Basic parameters 1 基本参数1

ITEM 项目	SPECIFICATION 规格
Rated capacity 额定容量 (25℃/1C)	100.0Ah
voltage platform.电压平台 (V)	3.2V
Initial capacity 初始容量 (Ah)	≥100
Limited voltage in charge 最大充电电压	3.65V
Final voltage in discharge 放电终止电压 (温度>0℃)	2.50V
Final voltage in discharge 放电终止电压 (温度≤0℃)	2.00V
Discharge temperature 放电温度	-20~60
Charge temperature 充电温度	0 ~60

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ITEM 项目	SPECIFICATION 规格
Charging and discharging current 充放电电流	Refer to Article 6, Charging and Discharging Strategies 参考第 6 条, 充放电策略
ACR 交流内阻 (25°C, 15% SOC) mΩ	≤0.45
DCR 直流内阻 (25°C, 50% SOC) mΩ	≤2.0
Capacity retention 25°C, 100%SOC, 30days 荷电保持 25°C, 100%SOC, 1 个月	≥96%
Capacity retention 60°C, 100%SOC, 7days 荷电保持 60°C, 100%SOC, 7 天	≥96%
Cycle life@25°C, 1C 电池寿命@25°C, 1C	≥2000 次
Calendar life 日历寿命 (25°C)	≥8 年
Cell safety performance 电芯安全性能	Crush/ Nail/ Over charge/ Over discharge/ Heating/ Free fall etc. 挤压, 针刺, 过充, 过放, 加热, 跌落等符合国标要求
Opening pressure of explosion-proof valve 防爆阀开启压力	0.8±0.2Mpa
Battery weight 电池重量 (Kg)	2.00±0.10
Appearance 外观	No deformation or cracks, no burrs, no drying, no trauma, no dirt, clear and correct marks. 不得有变形、裂纹, 表面无毛刺、干燥、无外伤、无污物, 有清晰、正确的标志
Humidity range 湿度范围	0 ~ 90 % RH (non-condensing 不冷凝)
Atmosphere 大气压	70kPa~106kPa

5.2 Basic parameters 2 基本参数2

Different Temperature Capacity, Energy Retention Rate 不同温度容量, 能量保持率

ITEM 项目	-20°C	-10°C	0°C	10°C	25°C	35°C	45°C	55°C
容量保持率	≥80%	≥85%	≥90%	≥95%	≥100%	≥100%	≥100%	≥100%
能量保持率	≥75%	≥80%	≥85%	≥90%	≥100%	≥100%	≥100%	≥100%



江西安驰新能源科技有限公司
JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

5.3 SOC-OCV

SOC \ 温度	放电 SOC-OCV							
	-20℃	-10℃	0℃	10℃	25℃	35℃	45℃	55℃
100	3.362	3.351	3.356	3.348	3.360	3.349	3.346	3.339
90	3.294	3.305	3.315	3.321	3.329	3.33	3.331	3.332
80	3.289	3.305	3.314	3.321	3.327	3.329	3.33	3.33
70	3.279	3.300	3.311	3.320	3.326	3.328	3.329	3.329
60	3.269	3.283	3.293	3.308	3.319	3.314	3.311	3.313
50	3.262	3.27	3.278	3.281	3.289	3.292	3.294	3.297
40	3.259	3.266	3.272	3.277	3.286	3.29	3.293	3.295
30	3.258	3.264	3.270	3.276	3.282	3.277	3.272	3.274
20	3.252	3.261	3.265	3.262	3.252	3.238	3.234	3.238
10	3.246	3.244	3.244	3.218	3.203	3.199	3.196	3.2
0	3.239	3.219	3.214	3.155	2.904	2.649	2.586	2.607



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

6 Charging and Discharging Strategy 充放电策略

Continuous Charging current

表 6.1: 持续充电电流表

温度 SOC	$T \leq 0^{\circ}\text{C}$	$0 < T \leq 5^{\circ}\text{C}$	$5 < T \leq 10^{\circ}\text{C}$	$10 < T \leq 15^{\circ}\text{C}$	$15 < T \leq 35^{\circ}\text{C}$	$35 < T \leq 40^{\circ}\text{C}$	$40 < T \leq 45^{\circ}\text{C}$	$45 < T \leq 50^{\circ}\text{C}$	$50 < T \leq 55^{\circ}\text{C}$	$55 < T \leq 60^{\circ}\text{C}$	$> 60^{\circ}\text{C}$
100%	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C
95%	0C	0.1C	0.1C	0.2C	0.2C	0.2C	0.1C	0.1C	0.1C	0.1C	0C
90%	0C	0.2C	0.2C	0.33C	0.33C	0.33C	0.2C	0.2C	0.1C	0.1C	0C
80%	0C	0.33C	0.33C	0.5C	0.75C	0.75C	0.5C	0.2C	0.1C	0.1C	0C
70%	0C	0.33C	0.5C	0.75C	1C	0.75C	0.5C	0.33C	0.2C	0.1C	0C
60%	0C	0.33C	0.5C	1C	1C	0.75C	0.5C	0.33C	0.2C	0.1C	0C
50%	0C	0.33C	0.5C	1C	1C	0.75C	0.5C	0.33C	0.2C	0.1C	0C
40%	0C	0.33C	0.5C	1C	1C	0.75C	0.5C	0.33C	0.33C	0.1C	0C
30%	0C	0.33C	0.5C	1C	1C	0.75C	0.5C	0.5C	0.33C	0.1C	0C
20%	0C	0.33C	0.5C	1C	1C	0.75C	0.75C	0.5C	0.5C	0.2C	0C
10%	0C	0.33C	0.5C	1C	1C	0.75C	0.75C	0.5C	0.5C	0.2C	0C
5%	0C	0.33C	0.5C	1C	1C	0.75C	0.75C	0.5C	0.5C	0.2C	0C
0%	0C	0.33C	0.5C	1C	1C	0.75C	0.75C	0.5C	0.5C	0.2C	0C



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

表6.2: Maximum pulse charging current

允许最大脉冲充电/制动回馈电流IBmax (SOC, T, 30s)

温度 SOC	T≤0 ℃	0<T≤5 ℃	5<T≤10 ℃	10<T≤15 ℃	15<T≤35 ℃	35<T≤40 ℃	40<T≤45 ℃	45<T≤50 ℃	50<T≤55 ℃	55<T≤60 ℃	>60℃
100%	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C
95%	0C	0.1C	0.1C	0.2C	0.33C	0.33C	0.2C	0.2C	0.2C	0.1C	0C
90%	0C	0.33C	0.33C	0.5C	0.5C	0.5C	0.33C	0.33C	0.33C	0.2C	0C
80%	0C	0.5C	0.5C	1C	1C	0.75C	0.75C	0.33C	0.33C	0.2C	0C
70%	0C	0.5C	0.75C	1C	1.5C	1C	1C	0.5C	0.5C	0.33C	0C
60%	0C	0.5C	0.75C	1.5C	1.5C	1C	1C	0.5C	0.5C	0.33C	0C
50%	0C	0.5C	0.75C	1.5C	1.5C	1C	1C	0.5C	0.5C	0.33C	0C
40%	0C	0.5C	0.75C	2C	2C	1C	1C	0.75C	0.75C	0.33C	0C
30%	0C	0.5C	0.75C	2C	2C	1C	1C	0.75C	0.75C	0.5C	0C
20%	0C	0.5C	0.75C	2C	2C	1C	1C	1C	0.75C	0.5C	0C
10%	0C	0.5C	1C	2C	2C	1C	1C	1C	0.75C	0.5C	0C
5%	0C	0.5C	1C	2C	2C	1C	1C	1C	0.75C	0.5C	0C
0%	0C	0.5C	1C	2C	2C	1C	1C	1C	0.75C	0.5C	0C



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

表 6.3: Maximum continuous discharge current

最大允许持续放电电流 $I'_{\max}$ (SOC, T)

温度 SOC	-20<T≤ -10℃	-10<T≤ 0℃	0<T≤ 5℃	5<T≤ 10℃	10<T≤ 15℃	15<T≤ 35℃	35<T≤ 40℃	40<T 45℃	45<T 50℃	50<T 55℃	55<T 60℃	>60 ℃
100%	0.5C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
95%	0.5C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
90%	0.5C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
80%	0.5C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
70%	0.5C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
60%	0.33C	0.5C	0.75C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0.33C	0C
50%	0.33C	0.5C	0.75C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0.2C	0C
40%	0.33C	0.5C	0.75C	0.75C	1C	1C	1C	0.75C	0.5C	0.33C	0.2C	0C
30%	0.33C	0.5C	0.5C	0.75C	1C	1C	0.75C	0.5C	0.33C	0.33C	0.2C	0C
20%	0.33C	0.5C	0.5C	0.75C	0.75C	1C	0.75C	0.5C	0.33C	0.2C	0.1C	0C
15%	0.33C	0.33C	0.5C	0.5C	0.75C	0.75C	0.5C	0.33C	0.33C	0.2C	0.1C	0C
10%	0.2C	0.33C	0.33C	0.5C	0.5C	0.5C	0.5C	0.33C	0.33C	0.2C	0.1C	0C
5%	0.1C	0.2C	0.2C	0.33C	0.33C	0.33C	0.33C	0.2C	0.2C	0.2C	0.1C	0C
0%	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

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Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

表 6.4: Maximum Pulse Discharge Current

允许脉冲放电电流 I'_{max} (SOC, T, 30s)

温度 SOC	-20<T≤ -10℃	-10<T ≤0℃	0<T≤5 ℃	5<T≤1 0℃	10<T≤ 15℃	15<T≤ 35℃	35<T≤ 40℃	40<T ≤45℃	45<T ≤50℃	50<T≤ 55℃	55<T ≤60℃	>60 ℃
100%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1.5C	1C	0.75C	0.5C	0C
95%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1.5C	1C	0.75C	0.5C	0C
90%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1.5C	1C	0.75C	0.5C	0C
80%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1.5C	1C	0.75C	0.5C	0C
70%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1.5C	1C	0.75C	0.5C	0C
60%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1C	0.75C	0.5C	0.5C	0C
50%	0.5C	0.75C	1C	1.5C	1.5C	2C	1.5C	1C	0.75C	0.5C	0.33C	0C
40%	0.5C	0.75C	1C	1C	1.5C	1.5C	1.5C	1C	0.75C	0.5C	0.33C	0C
30%	0.5C	0.75C	0.75C	1C	1.5C	1.5C	1C	0.75C	0.5C	0.5C	0.33C	0C
20%	0.5C	0.75C	0.75C	1C	1C	1.5C	1C	0.75C	0.5C	0.33C	0.33C	0C
15%	0.33C	0.5C	0.7C	0.75C	1C	1C	0.75C	0.5C	0.5C	0.33C	0.2C	0C
10%	0.33C	0.5C	0.5C	0.75C	0.75C	0.75C	0.75C	0.5C	0.5C	0.33C	0.2C	0C
5%	0.2C	0.33C	0.33C	0.5C	0.5C	0.5C	0.5C	0.33C	0.33C	0.33C	0.2C	0C
0%	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C



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JIANGXI ANCHI NEW ENERGY TECHNOLOGY CO., LTD

产品规格书—IFP48173115-100Ah
Product Specification For IFP48173115-100Ah

编号/NO:ACQI-DP-RD/013

版本/VER.:A0

7 Storage and quality guarantee period 存储，保质期

7.1 对于不同的存储环境下，建议存储条件参照下表：

Temperature 环境温度	Storage time 存储时间	SOC 荷电状态
-20~40℃	≤6 个月	10%≤SOC≤60%
40~50℃	≤3 个月	10%≤SOC≤60%

7.2 25℃条件下存储：

Storage time 存储时间	30days storage 存储 30 天	60days storage 存储 60 天	90days storage 存储 90 天	180days storage 存储 180 天
Voltage drop standard 压降标准/mV	≤5	≤8	≤10	≤20

Shelf life: calendar life of 8 years or cycle life of 2000 times (based on first come)

保质期：日历寿命8年或循环寿命2000次（以先到为准）

Regular maintenance

For storage cores that have been used for more than 6 months, the starting time is the delivery time of our cores; if regular maintenance is required, 0.5C current constant charging should be carried out to 3.65V, 3.65V constant voltage to 0.05C, 0.5C constant current discharging to 2.5V after 10 minutes, 0.5C constant current charging to 3.42V after 10 minutes, 3.42V constant voltage charging to 0.05C, and the process ends. If abnormal cores are found in the maintenance process, we should contact our company to deal with them in time.

定期维护

对于使用方库存超过6个月的电芯，起始时间为我司电芯出货时间；如需进行定期维护，需进行0.5C电流恒流充电至3.65V，3.65V恒压至0.05C，静置10min后使用0.5C恒流放电至2.5V，静置10min后再使用0.5C恒流充电到3.42V，3.42V恒压充电至0.05C，流程结束。如维护过程中发现有异常电芯，需及时联系我司进行处理。



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8 Warning and cautions in handling the lithium-ion cell

电芯使用时警告事项及注意事项

To prevent the possibility of the cell from leaking, heating, explosion, please observe the following precautions:

为防止电芯可能发生泄露，发热，爆炸，请注意以下预防措施：

- Don't immerse the cell in water.
- 严禁将电芯浸入水中。保存不用时，应放置在阴凉干燥的环境中。
- Don't use and leave the cell near a heat source, such as fire or heater.
- 禁止将电芯在高温源旁使用和留置，如火，加热器等旁边。
- Don't discard the cell in fire or heater.
- 禁止将电芯丢入火或加热器中。
- Don't connect the positive and negative terminal directly with metal objects.
- 禁止用金属直接连接电芯正负极，造成短路。
- Don't transport and store the cell together with metal objects such as necklaces, hairpins.
- 禁止将电芯与金属，如发卡、项链等一起运输或存储。
- strike, throw or trample the cell.
- 禁止敲击，抛掷或踩踏电芯等。
- Don't directly solder the cell.
- 禁止直接焊接电芯。
- Don't pierce the cell with a nail or other sharp object.
- 禁止用钉子或其它利器刺穿电芯。

Caution 小心

- If the cell leaks and the electrolyte get into your eyes, don't wipe eyes, instead, thoroughly rinse the eyes with clean running water for at least 15 minutes, and immediately seek medical attention. Otherwise, eye injury can result.
- 如果电芯发生泄露，电解液进入眼睛，请不要搓揉，应用清水冲洗眼睛15分钟以上，必要时请立即前往医院接受治疗，否则会伤害眼睛。
- If the cell gives off an odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during usage, recharging or storage, immediately remove it from the device or cell charger and stop using it.
- 如果电芯发出异味，发热，变色，变形或使用、存储、充电过程中出现任何异常现象，立即将电芯从装置或充电器中移开并停用。

9 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：

Headquarter: Xing Ye Road No.128, Shang Rao Economic and Technological Development Zone, Jiang Xi province

厂址：江西省上饶市经济技术开发区兴业大道128号

Tel: 0793-8829888

Fax: 0793-8571899