



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 (S01-D)
Product Specification For IFP48173115-100Ah

编号: ACQI-DP-RD/014
版次: A2

Product Specification

产品规格书

型 号: IFP48173115-100Ah (S01-D)

版本号: A2

编制 Prepared/Date	审核 Checked/Date	批准 Approved/Date	生效日期 Effective date
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版本	修改内容	修改人	实施日期
A0	初版发行	周焘	2021-7-22
A1	变更: 1、充放电温度从-20~55℃调整至-20~60℃;	彭小河	2023-3-28
	增加 1、修改充放电策略表, 细化不同SOC不同温度充放电电流; 2、电池焊接区域说明; 3、对电池温度进行解释		
A2	变更: 1、修改电芯使用寿命	彭小河	2024-5-22





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8. Warning and cautions 电池使用时警告事项
9. Disclaimer 免责声明





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1 Preface 前言

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

本标准描述了方形电池的外型尺寸、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电池。

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 0.5C to 2.7 volts at 25 ± 2°C
额定容量 Cap=100.0Ah, 指在25 ± 2°C环境下, 以0.5C放电至终止电压为2.7V时的容量。

2.2 Standard charge method 标准充电方式

At 25 ± 2.0°C, charge to 3.65V at a constant current of 0.5C, and then, charge continuously with constant voltage of 3.65V until the charge current drops below 0.05C.

在 25 ± 2.0°C环境下, 以0.5C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 ± 2.0°C, discharge to 2.7V at a constant current of 0.5C.

在25 ± 2.0°C环境下, 以0.5C的电流恒流放电至电压2.7V。

2.4 End of life 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。

2.5 Temperature 温度

The charge and discharge temperature specified in the specification refers to the surface center temperature of the cell, unless otherwise stated.

除特殊说明外, 规格书中所描述的充放电温度指的是电池表面中心的温度。

3 Reference standard 参考标准

YD/T 2344.1-2011 LiFePO₄ battery system for telecommunications part1 : integrated battery system

YD/T 2344.1-2011 通信用磷酸铁锂电池组第一部分: 集成式电池组

YD/T 2344.2-2015 LiFePO₄ battery system for telecommunications part2 : discrete battery system

YD/T 2344.2-2015 通信用磷酸铁锂电池组第二部分: 分立式电池组





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4 Cell type and size 电池型号及尺寸

4.1 Description and model 电池说明及型号

Description: Square Li-ion rechargeable cell

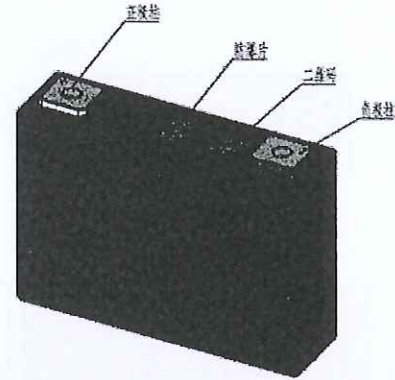
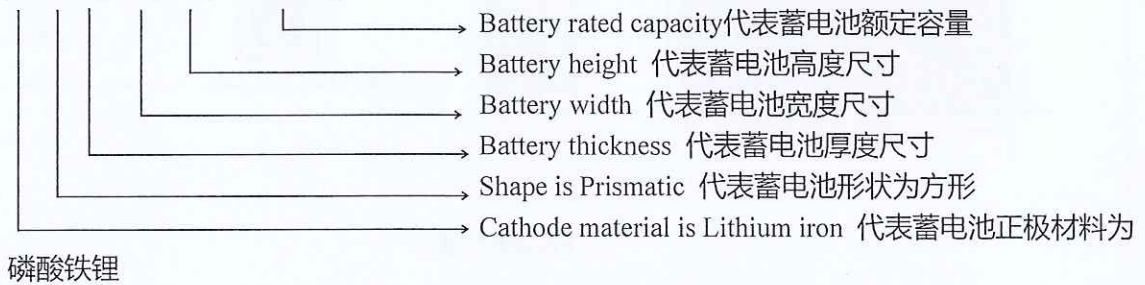
Model: IFP48173115-100Ah

IFP48173115-100Ah 型号的方形锂离子二次电池

Product Model Meaning 产品型号含义:

IFP48173115-100Ah

IF P XX XXX XXX - 100Ah



4.2 Cell size (Including blue film) 电池尺寸 (包括蓝膜)

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)	115.8±0.5
Battery height 电池高度 (Including Pole 包含极柱, mm)	121.5±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
Positive pole edge to shell edge 正极柱边缘到壳体边缘(mm)	11.1±0.5
Pole size 极柱尺寸(mm)	28.8X26.8
Pole distance 极板间距(mm)	129.3±0.5

Destructive processing, such as polishing and laser welding, is prohibited in other areas except those demonstrated in the area of welding (Figure 1).

除所示可焊接区域范围 (图1), 其他区域禁止进行破坏式的加工处理, 如打磨、激光焊接等。



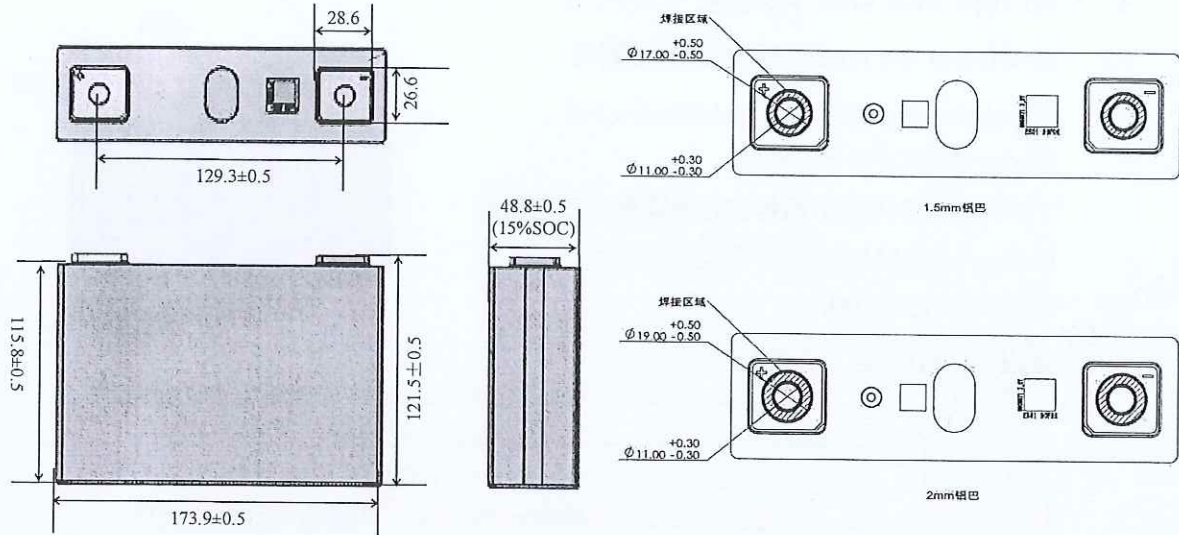


Figure 1/图1

5 Cell parameters and performance 电池参数和性能

5.1 Basic parameters 基本参数

ITEM 项目	SPECIFICATION 规格
Rated capacity 额定容量 (25°C/0.5C)	100.0Ah
voltage platform.电压平台	3.2V
Limited voltage in charge 最大充电电压	3.65V
Final voltage in discharge 放电终止电压	2.70V
Voltage protection in charge 充电保护电压	3.80V
Voltage protection in discharge 放电保护电压	2.0V (> 0°C) , 1.6V (≤0°C)
Discharge temperature 放电温度	-20 ~ 60°C
Charge temperature 充电温度	0 ~ 60°C





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ITEM 项目	SPECIFICATION 规格
Standard charge and discharge current 标准充放电电流	0.5C (50A)
Maximum continuous charge and discharge current 最大可持续充放电电流	1C (100A)
ACR 交流内阻 (25°C, 15%SOC, 1KHz) mΩ	≤0.45
DCR 直流内阻 (25°C, 50%SOC, 100A/10s) mΩ	≤1.5
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%
Shipping capacity 出货容量	15±3Ah (~15%SOC)
Residual capacity loss 月自放电	Per month ≤3% ≤3%/月 (50%SOC, 25±2°C)
Cycle life@25°C, 0.5C/80%SOH 电池寿命@25°C, 0.5C/80%SOH	≥2000 次
Calendar life 日历寿命 (25°C)	≥8 年
End of life 寿命终止	< 80%
Recommend range of SOC 推荐 SOC 范围	10%~90%
Cell safety performance 电池安全性能	Crush/ Over charge/ Over discharge/ Heating/ Free fall etc.挤压, 过冲, 过放, 加热, 跌落等符合国标要求
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、及裂纹, 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	0~85% RH (non-condensing 不冷凝)
Atmosphere 大气压	70kPa ~ 106kPa
Altitude 应用海拔高度	< 4500m





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5.2 Performance 性能

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

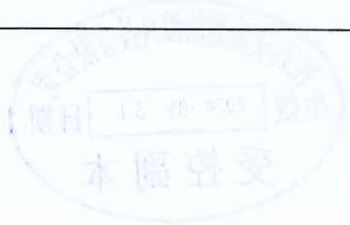
环境温度	放电电流 xC	电池容量要求
25°C	0.5C	电池放电容量应不低于额定容量的 100%。
	1C	电池放电容量应不低于额定容量的 95%。
0°C	0.5C	电池放电容量应不低于额定容量的 80%。
	0.1C	电池放电容量应不低于额定容量的 80%。
-10°C	0.1C	电池放电容量应不低于额定容量的 70%。
-20°C	0.1C	电池放电容量应不低于额定容量的 60%。
40°C	0.1C	电池放电容量应不低于额定容量的 99%。
55°C	0.1C	电池放电容量应不低于额定容量的 99%。
60°C	0.1C	电池放电容量应不低于额定容量的 99%。

Test method: The cell is charged in the standard charge method, then xC constant power discharge to 2.7V at different temperature.

测试方法: 按照标准充电后, 分别在不同温度搁置直到电池表面温度达到目标温度后, xC 放电至2.7V

5.2.2 SOC/OCV 不同温度下带电量与开路电压

SOC \ 温度	OCV							
	-20°C	-10°C	0°C	10°C	25°C	35°C	45°C	55°C
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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5.2.3 Charging Strategy 充电策略

Continuous Charging current 持续充电电流表

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





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Maximum pulse charging current 允许最大脉冲充电/制动回馈电流 (SOC, T, 30s)

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



受控副本



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5.2.4 Discharging Strategy 放电策略

Maximum pulse charging current 最大允许持续放电电流表

温度 SOC	-20<T ≤-10°C	-10<T ≤0°C	0<T≤5 °C	5<T≤1 0°C	10<T≤ 15°C	15<T≤ 35°C	35<T≤ 40°C	40<T≤ 45°C	45<T≤ 50°C	50<T≤ 55°C	55<T≤ 60°C	>60°C
≤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	1C	0.75C	0.5C	0.33C	0C
≤50%	0.33C	0.5C	0.75C	1C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
≤40%	0.33C	0.5C	0.75C	0.75C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
≤30%	0.2C	0.33C	0.5C	0.75C	1C	1C	1C	1C	0.75C	0.5C	0.33C	0C
≤20%	0.2C	0.33C	0.5C	0.75C	0.75C	0.75C	0.75C	0.75C	0.5C	0.33C	0.33C	0C
≤15%	0.2C	0.33C	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C	0.33C	0.2C	0C
≤10%	0.2C	0.33C	0.33C	0.33C	0.33C	0.33C	0.33C	0.33C	0.33C	0.2C	0.2C	0C
≤5%	0.1C	0.1C	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C	0.2C	0C
0%	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C	0C



受控副本



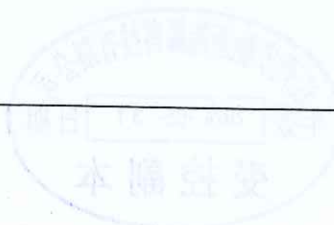
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Maximum Pulse Discharge Current 最大允许脉冲放电电流表 (30s)

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





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5.2.5 Cell temperature rise 电池温升

The temperature rise refers to the surface temperature of the cell after discharge minus the surface temperature of the cell before discharge. The measurement of the temperature rise of the cell should be carried out in a room where the ambient temperature is relatively stable and the space is large enough. For each cell temperature measurement, a calibrated temperature sensor that records time data should be selected.

单体电池温升指的是在规定的放电条件下, 放电完成后电池的表面温度减去电池放电前的温度。电池温度的测量应在开阔且温度稳定的环境下进行测试, 测量温度的传感器应当经过校准并且可以记录时间随温度的变化。

No. 序号	Parameter 参数	Rate 倍率	Specification 规格	Condition 条件
①	Continuous discharge temperature rise 持续放电温升	0.5C	$\leq 7^{\circ}\text{C}$	The cell is charged in the standard method, then discharged at $25\pm 2^{\circ}\text{C}$ by 0.5C/1C, separately. 电池按照标准充电后, 于 $25\pm 2^{\circ}\text{C}$ 环境下, 分别按照0.5C/1C放电进行测试。
		1C	$\leq 12^{\circ}\text{C}$	
②	Pulse discharge temperature rise 脉冲放电温升	2C	$\leq 5^{\circ}\text{C}$	The cell is discharged at 2C for 10s under any state of charge. 在任意带电状态下, 电池以2C恒流放电10s

6 Storage and quality guarantee period 存储, 保质期

6.1 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°C	≤ 6 个月	$10\% \leq \text{SOC} \leq 60\%$
40~50°C	≤ 3 个月	$10\% \leq \text{SOC} \leq 60\%$
45~60°C	≤ 1 个月	$30\% \leq \text{SOC} \leq 60\%$

Shelf life: calendar life of 8years 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 定期维护

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 3.65 V, 3.65 V constant voltage to 0.05C, 0.5C constant current discharging to 2.7V 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.

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3.65 V, 3.65 V恒压至0.05C, 静置10min后使用0.5C恒流放电至2.7V, 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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7 Usage and test 电池使用及测试注意事项

7.1 Description of service condition: safety test, cycle life test and pack design need to add preload force, and the range of preload force of fresh cell is 500N~5000N, the recommended preload force is 2000±500N.

使用条件说明: 安全测试、寿命测试、系统成组设计需要施加预紧力, 新鲜电池的预紧力范围为 500~5000N, 推荐的预紧力为2000±500N

7.2 This cell is designed to service with a finite life time. The customer shall develop and implement an active tracking system to monitor and record impedance of each Product in its entire service life. Customer shall stop using any of the products when its resistance exceeds 200% of its internal resistance or it capacity fading to 80% of typical capacity @25°C.

由于电池的生命周期是有限的, 客户应当建立有效的跟踪系统监测并记录每个电池在使用期限内的容量及内阻。当内阻超过该电池初始内阻的200%或容量降低至初始容量的80%以下 (25°C环境下), 应立即停止使用该电池。

7.3 When the Products are intended to be stored for a prolonged period of time (more than one month), the SOC of cells should be adjusted to around 50% periodically (every three months is recommended). For cell, the recommend period to recharge is 6 months at -20~40°C; the recommend period to recharge is 3 months at 40~50°C The recharge period is for reference. The SOC cannot be less than 8% for storage, otherwise, ANC will not undertake the responsibility of quality assurance.

若需长期存储电池 (超过一个月), 建议将电池SOC调整为50%左右。单体电池, 在-20~40°C环境下的存储周期为6个月, 40~50°C环境下的存储周期为3个月。存储过程中, 电池SOC不得低于8%, 否则ANC不承担质量保证责任。

7.4 Customer shall procure that each product shall be used under the strict monitor, control and protection by the BMS. When the cell is first used, it must be fully charged and discharged according the standard charge/discharge method to activate it.

客户在使用电池过程中应通过电池管理系统严密监控和保护每个电池。当电池首次被使用时, 应按照标准充放电规定的方法对电池进行激活, 以保证后续使用过程中电池的容量能够充分发挥。

7.5 Customer shall keep relevant records of the BMS monitoring data throughout the entire service life of each product, including keeping record of number of occurrence of rush charge, which could be used in the determination and judgment of any product warranty and liability claim entitlement. No warranty or liability claim should be considered without BMS diagnosis records (at a regular basis, esp. during maintenance) of the relevant product.

客户应保存完整的电池运行使用记录数据, 包括时间、电压、电流、温度、容量等, 用作产品质量责任划分的参考。不具备完整的电池系统使用期限内监测数据的情况下, 我司不承担产品质量保证责任。





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7.6 The BMS shall include the following monitoring and control features as a minimum requirement:

电池管理系统应最少保证以下基本检测和控制要求:

No . 序号	Parameter 参数	Specification 规格	Action 动作
1	Stop charging 充电终止	3.65V	Stop charging BMS申请终止充电
2	First overcharge protection 第一级过充保护	3.7V(MAX) 最大3.7V	Stop charging BMS强制终止充电
3	Second overcharge protection 第二级过充保护	3.8V(MAX) 最大3.8V	The BMS is forced to terminate charging, and the BMS should be locked until the technician solve the problem. BMS强制终止充电并锁定直至技术人员解决相关问题
4	Stop discharging 放电终止	2.5V	Stop discharging BMS申请终止放电
5	First over discharge protection 第一级过放保护	2.4V (> 0°C) 1.8V (≤0°C)	Stop discharging BMS强制终止放电
6	Second over discharge protection 第二级过放保护	2.0V(> 0°C) 1.6V (≤0°C)	The cell should be charged back to 30%~50%SOC at 0.1C in time, and the BMS should be locked until the technician solve the problem. 当电池电压低于2.0V(> 0°C)或1.6V (≤ 0°C) 时, BMS强制终止放电并被锁定直至技术人员解决问题, 同时立即以0.1C充电至30%~50%SOC。
7	Short circuit protection 短路保护	No short circuit allowed 不允许短路	The cell should be disconnected by the over current protection device 发生短路时, 需由过流保护装置断开电池





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No. 序号	Parameter 参数	Specification 规格	Action 动作
8	Over current protection 过流保护	Refer to 5.2.2 参照第5.2.2条	Control discharge current by BMS to values within specification BMS应控制电流符合规格书规定的电流范围。
9	Over temperature protection 过温保护	Refer to 5.1 参照第5.1条	Stop charging and discharging when temperature exceeds specification 超过规格书规定的温度范围, 应停止充放电

7.7 The design of the electric box must fully consider the water proof and dust proof problems of the cells. The electric box must meet the water proof and dust proof grade stipulated by the relevant national standards.

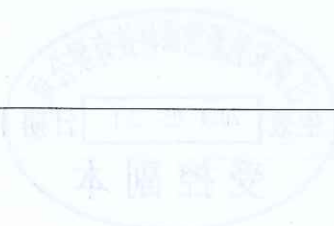
箱体在设计过程中应充分考虑电池的防水及防尘问题, 箱体必须满足UL和IEC有关标准规定的防水、防尘等级。若出现因箱体防尘或防水问题导致的电池的损坏(如腐蚀、生锈), 我司不承担质量保证责任。

7.8 It is forbidden to mix different type cells in the same battery system.

禁止将不同类型的电池在同一个电池系统内使用, 否则ANC不承担质量保证责任。

7.9 Disposal of batteries should follow local regulations.

电池的处理应遵循当地的法规。





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8 Warning and cautions 电池使用时警告事项

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

为防止电池可能发生泄露, 发热, 爆炸, 请注意以下预防措施:

- Don't immerse the cell in water.
- 严禁将电池浸入水中。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.
- 禁止将电池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.
- 禁止将电池丢入火或加热器中。
- Don't connect the positive and negative terminal directly with metal objects.
- 禁止用金属直接连接电池正负极, 造成短路。
- Don't transport and store the cell together with metal objects such as necklaces, hairpins.
- 禁止将电池与金属, 如发卡、项链等一起运输或存储。
- strike, throw or trample the cell.
- 禁止敲击, 抛掷或踩踏电池等。
- Don't directly solder the cell.
- 禁止直接焊接电池。
- 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池。

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.
- 如果电池发生泄露, 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.
- 如果电池发出异味, 发热, 变色, 变形或使用、存储、充电过程中出现任何异常现象, 立即将电池从装置或充电器中移开并停用。





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