THE PROVEN LEADER IN LITHIUM-ION MOTIVE POWER BATTERY

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叉车电池使用说明书 USER MANUAL

The Power Behind The Forklift





电池使用说明 Battery instructions

为了保证您的电池系统长期安全可靠的运行,请您仔细阅读并遵守以下使用说明:

To ensure the long-term safe and reliable operation of your battery system, please read and follow the following instructions carefully:

1.1 电池温度特性

■ Battery temperature characteristics

工作环境温度: -20℃~55℃

储存环境温度: 0℃~45℃

充电环境温度: 0°C~45°C

Working ambient temperature: -20°C~55°C

Storage ambient temperature: 0°C~45°C

Charging ambient temperature: 0°C~45°C

1.2 出车前检查

Check before leaving the car

- 观察车辆仪表盘(电池配套显示屏),确认电池系统状态正常,无任何报警信息。
- 当SOC值大于50%时, 出车较好;若条件允许, 建议满充后出车。
- 当SOC值小于30%时, 电量较低, 应充电至50%以上方可出车。
- Observe the vehicle dashboard (battery supporting display) to confirm that the battery system status is normal without any alarm message.
- When the SOC value is greater than 50%, it is better to go out of the car; if conditions permit, it is recommended to go out of the car after full charging.
- When the SOC value is less than 30%, the power is low and should be charged to more than 50% before leaving the car.

1.3 正常运营车辆的使用要求

Requirements for the use of battery in normal operation

- 叉车电池每三日(每周)至少做一次自动满充电;
- 每日机会充电时、请按照机会充电操作规范进行;
- 显示器提示电池电量低时:请尽快进行"充电"使电池系统恢复到正常状态:
- 若夏季高温天气:请注意电池系统的高温报警,关注电池温度;高温环境使用后,请不要立即拉去充电:
- 当气温在0度及以下,运行车辆收车后尽快充电,以防止电池温度过低不能充电或者充电时间延长, 影响运行:
- Forklift batteries should be automatically fully charged at least once every three days (weekly).
- When charging the battery every day, please follow the operation specification of opportunity charging.

- When the display indicates that the battery power is low, please charge the battery as soon as
 possible to bring the battery system back to its normal state.
- If the weather is hot in summer: please pay attention to the high-temperature alarm of the battery system and pay attention to the temperature of the battery; please don't pull it to charge immediately after using it in high high-temperature environment.
- When the temperature is 0 degrees and below, charge as soon as possible after the vehicle is closed, to prevent the battery temperature is too low to charge or the charging time is prolonged, affecting the operation.

1.4 久放不用车辆的使用要求

Requirements for batteries on idle vehicles

- 电池存放的最佳SOC区间:40%~60%;
- 电池系统的存放环境要求通风,干燥,不受阳光直射,不受雨淋,远离热源;
- 车辆必须每三个月做一次"电池保养"防止造成电池损伤。具体操作方法参见1.6节;
- 久放车辆首次使用前,为激活电池系统至少需要做一次"电池保养"以恢复电池的性能到最佳状态。
- The best SOC range for battery storage: is 40%~60%.
- The storage environment of the battery system should be ventilated, dry, out of direct sunlight, out of rain, and away from heat sources.
- Vehicles must do 'battery maintenance' every three months to prevent damage. See section 1.6 for specific operation methods.
- Before the vehicle is used for the first time, at least one 'Battery Maintenance' is required to activate the battery system to restore its performance to its optimal state.

1.5 首次使用要求

Requirements for first use

由于海运时间较久,第一次使用前,必须使用充电器满充一次,激活电池。

Due to the long shipping time, it is important to activate the battery by fully charging it once with the charger before using it for the first time.

1.6 充电操作说明(常规充电,全程电池显示器处于关闭状态)

 Instructions for charging operation (regular charging with the battery display switched off throughout)



1 充电机总开关拨到OFF档
The main switch of the charger is switched to OFF.



3 连接上充电机与电池之间的充电接插件 Connect the charging connector between the charger and the battery.



5 充电机总开关拨至ON档

The main switch of the charger is switched to ON.



2 连接上充电机上AC端线束 Connect the AC terminal harness on the charger.



4 AC端总开关拨至ON档

AC terminal main switch to ON.

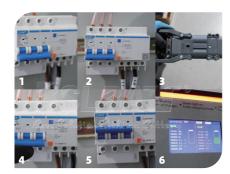


6 观察显示器上有电压与电流,指示灯亮绿灯; 表示充电正常。

Observe the voltage and current on the display, the indicator light is green; indicates that charging is normal.

1.7 充电操作说明(充电暂停/机会充电)

 Description of charging operations (charging pause/opportunity charging)



1 参见1.6节完成充电对接
See section 1.6 Completing the charge docking.



3 电流降为0A,此时LED等闪烁绿灯,等待 10秒

The current drops to 0A, at this time the LED, etc. flashes green, wait for 10 seconds.



5 续第三步,关闭充电机总开关

Continuing from step 3, switch off the main charger



2 长按暂停键3-5秒

Press and hold the pause button for 3-5 seconds.



4 若恢复充电,则需按下开始键,便可恢复 (无需继续充电则跳过)

If resuming charging, you need to press the start button to resume (Skip if no further charging is required)



6 拔开电池与充电机的插头

Unplug the battery from the charger.

1.8 放电使用说明

Instructions for the use of discharges



1 确保电池处于关机状态 Make sure the battery is switched off.



3 接头安装好,请开机电池 Connectors installed, please switch on the battery.



5 叉车停车,关闭钥匙 Forklift parked and keyed off.



2 连接电池放电接头与叉车接头 Connecting the battery discharge connector to the forklift connector.



4 打开叉车按钮,等待几秒钟 Switch on the forklift button and wait a few seconds.



6 关闭电池, 离开 Switch off the battery and leave.

1.9 显示器界面说明

■ Display interface description



1 启动开关用于电池启动,蜂鸣器用于报警提示 tart switch for battery start, buzzer for alarm indication.



3 点击 "Cell Vol"进入电压详情界面,您可以左右滑动查 看每个电池串的电压值,点击 ػ 则返回上一级界面。

Click "Cell Vol "to enter the voltage detail screen, you can slide left and right to view each string voltage value and click to go back to the upper-level screen.



5 点击" 🗱 "进入设置界面,设置界面功能包括语言设置 点击" 🔄 "进入设置界面,设置界面功能包括语言设置

Click " to enter the setting interface, the settings interface functions include language setting Click " " to enter the setting interface, the settings interface functions include language setting



2 进入显示屏首页,左侧上方显示日期,日期和时间之间显示故障,右侧显示 时间;中间显示总电压、SOC、总电流、最高电压、最低电压、最高温度、 最低温度; 下方显示导航菜单, 可切换查看界面详情。

Enter the display home page, the top left side shows the date, between the date and time shows the fault, the right side shows the time; the middle shows the total voltage, SOC, total current, maximum voltage, minimum voltage, maximum temperature, minimum temperature; the bottom shows the navigation menu, you can switch to view the interface details.



4 点击 "Cell Temp"进入温度详情界面,可以左右滑动查看每 个温度值,点击 ≥返回上层界面。其他功能同理。

Click "Cell Temp" to enter the temperature detail interface, you can slide left and right to view each temperature value and click 🗾 to return to the upper-level interface. Same for other functions.



点击主界面进入故障信息界面,可以查看故障名称和故障发生 时间,左右滑动可以查看更多的故障、点击返回上级界面。

Click on the main interface to enter the fault information interface, you can view the fault name and fault occurrence time, swipe left and right to view more faults, and click to return to the parent

1.10 如何紧固叉车电池内部螺丝

■ How to tighten forklift battery internal screws.



1 拿掉螺丝,打开检修窗 Remove the screws and open the access window



3 拆除动力线并缠上绝缘胶布,移除上盖 Remove power line and wrap insulation tape, remove top cover



5 用13N*m紧固模组上的螺丝和螺杆 Tighten the screws and bolts on the module with 13N*m



2 拆除BMS上面的连接线束 Remove the wiring harness above the BMS



Remove the screws on the PDU and remove the PDU



5 复位PDU与线束,并用10N*m紧固PDU上的螺丝,盖上盖子,用7N*m紧固盖子上的螺丝。

Reset the PDU and cable harness, tighten the screws on the PDU with 10N*m, and close the cover with 7N*m.

各种型号螺钉(全直径) Various types of screws (full diameter)

型号/Model	转矩范围/Torque range
M2*8 self-drilling screws	0.8N-m
M3*5 Philips bolts with nut and washer	2.0N-m
M3*12 inner hex pan head bolts	2.0N-m
M4*12 philips screws	3.0N·m
M4*25 self-drilling screws	2.0N-m
M5*8 inner hex pan head bolts	6.0N·m
M5*10 combination bolts (with nut and washer)	5.0N·m
M5*12 Philips bolts	5.0N·m
M5*25 Philips bolts	6.0N-m
M6*15 Philips bolts	7.0N-m
M6*15 inner hex head bolts	7.0N·m
M6*15 stepped screws	8.0N·m
M6*45 inner hex half pan head bolts	8.0N-m
M8 flat bolts	10.0N-m
M8*15 inner hex pan head bolts (with 360° thread sealant)	10.0N-m
M8*15 inner hex pan head bolts (with 360° thread sealant)	13.0N-m
M8*15 inner hex pan head bolts (with 360° thread sealant)	13.0N-m
M8*20 inner hex pan head bolts (with 360° thread sealant)	10.0N·m
M8*20 inner hex pan head bolts	13.0N-m
M8*20 inner hex bolts (with 360° thread sealant)	13.0N-m
M8*100 inner hex pan head bolts (with 360° thread sealant)	15.0N-m
M8*200 inner hex pan head bolts (with 360° thread sealant)	15.0N-m

术语定义/产品介绍 Term Definition & Product Introduction

■ 电芯

最小能量存储单元,电池模块的基本元素,由正极、负极、电解液、排气阀、外壳、隔离膜组成。

■ 电池包

电能存储系统,通常包括一个或多个的电池模块、电池管理系统、热管理、高低压线、连接器以及机构件。

■ 自放电

在没有使用或者是间隔使用时因各种原因造成的容量的损失,自放电的值由容量损失相对于标称容量的比率来表述。

■ 过充

电池在满充后继续充电并会导致物理和/或化学的不可逆反应,造成性能的衰减甚至是电池的损坏的情况。

■ 过放

电池在满放后继续放电并会导致物理和/或化学的不可逆反应,造成性能的衰减甚至是电池的损坏的情况。

SOC

剩余电量相对于标称容量的比例。标准值为 0%-100%.0%表示的是电池满放,100%标识的是电池的满充。

Battery cell

The smallest energy storage unit, the basic element of the battery module, is composed of the positive electrode, negative electrode, electrolyte, exhaust valve, housing, and isolation membrane.

Battery pack

Electric energy storage system, usually including one or more battery modules, battery management system, thermal management, high and low voltage cables, connectors, and mechanical parts.

Self-discharge

The loss of capacity is due to various reasons when it is not used or when it is used at intervals. The value of self-discharge is expressed by the ratio of the capacity loss to the nominal capacity.

Over-charge

If the battery continues to be charged after being fully charged, it will cause irreversible physical and/or chemical reactions, resulting in performance degradation or even battery damage.

Over-discharge

The battery continues to discharge after being fully discharged, which will cause irreversible physical and/or chemical reactions, resulting in performance degradation or even battery damage.

■ SOC

The ratio of the remaining power to the nominal capacity. The standard value is 0%-100%. 0% means the battery is fully discharged.100% means the battery is fully charged.





■电池包主体 Battery Pack



■接头 Anderson/Rema Connector



■充电机 Charger



■显示屏 Display

		充电常规型号		
型号	适用电压平台	输出最大电流	输出功率	充电插头
BSL-24-50	25.6V	50A	1.2KW	RemaXX/可定制
BSL-24-100	25.6V	100A	2.4KW	RemaXX/可定制
BSL-24-150	25.6V	150A	3.6KW	RemaXX/可定制
BSL-24-200	25.6V	200A	4.8KW	RemaXX/可定制
BSL-48-100	38.6V/51.2V	100A	4.8KW	RemaXX/可定制
BSL-48-150	38.6V/51.2V	150A	7.2KW	RemaXX/可定制
BSL-48-200	38.6V/51.2V	200A	9.6KW	RemaXX/可定制
BSL-48-250	38.6V/51.2V	250A	12.0KW	RemaXX/可定制
BSL-80-100	76.8V/83.2V	100A	8KW	RemaXX/可定制
BSL-80-150	76.8V/83.2V	150A	12KW	RemaXX/可定制
BSL-80-200	76.8V/83.2V	200A	16KW	RemaXX/可定制
BSL-80-250	76.8V/83.2V	250A	20KW	RemaXX/可定制







Regular Charger Models				
Model	Applicable voltage platform	Maxiumum output curren	Output power	Charging plug
BSL-24-50	25.6V	50A	1.2KW	RemaXX/customizable
BSL-24-100	25.6V	100A	2.4KW	RemaXX/customizable
BSL-24-150	25.6V	150A	3.6KW	RemaXX/customizable
BSL-24-200	25.6V	200A	4.8KW	RemaXX/customizable
BSL-48-100	38.6V/51.2V	100A	4.8KW	RemaXX/customizable
BSL-48-150	38.6V/51.2V	150A	7.2KW	RemaXX/customizable
BSL-48-200	38.6V/51.2V	200A	9.6KW	RemaXX/customizable
BSL-48-250	38.6V/51.2V	250A	12.0KW	RemaXX/customizable
BSL-80-100	76.8V/83.2V	100A	8KW	RemaXX/customizable
BSL-80-150	76.8V/83.2V	150A	12KW	RemaXX/customizable
BSL-80-200	76.8V/83.2V	200A	16KW	RemaXX/customizable
BSL-80-250	76.8V/83.2V	250A	20KW	RemaXX/customizable

充放电插头型号			
充电插头型号	可压接线缆	输出最大电流	峰值过流
Rema320 公头 (带辅助触点)	50~95 方	185A~270A	400A-600A@255
放电插头型号	可压接线缆	最大持续电流	峰值过流
Rema320母头	50~95方	185A~270A	400A-600A@25S
Rema160母头	50~35方	148A-185A	300A-500A@25S
Rema80 母头	35方	148A	300A@25S
ANDERSON SB350	70~95方	225A-270A	400A-600A@25S
ANDERSON SB175	50-35方	148A-185A	300A-500A@25S
ANDERSON SBE320	70方	225A	600A@25S
ANDERSON SBE160	50方	148A	400A@25S





Model of Charge and Discharge Plug			
Charging plug model	Connection cable	Max. Sustained Current	Peak passing current
Rema320 MALE (With auxiliary contact)	50~95 square	185A~270A	400A-600A@255
Type of discharge plug	Connection cable	Max. Sustained current	Peak passing current
Rema320 FEMALE	50~95 square	185A~270A	400A-600A@25S
Rema160 FEMALE	50~35 square	148A-185A	300A-500A@25S
Rema80 FEMALE	35 square	148A	300A@25S
ANDERSON SB350	70~95 square	225A-270A	400A-600A@25S
ANDERSON SB175	50-35 square	148A-185A	300A-500A@25S
ANDERSON SBE320	70 square	225A	600A@25S
ANDERSON SBE160	50 square	148A	400A@25S

电池保养说明 Battery maintenance instructions

3.1 首次使用

First time using

- 装有电池的车辆若静置不用超过15天,再次启用车辆前必须进行一次激活维护,提供以下两种激活方案:
- 维护方式一:持续充电,直至充电机自动断电;(推荐:久放未用,首次激活)
- 维护方式二:保持剩余电量在70%以上,累计满充12次以上;(推荐:电池使用一年以后;若有电池有轻微的压差)
- If the vehicle with battery is not used for more than 15 days, it must be activated and maintained once before the vehicle is activated again, the following two activation programmes are available.
- Maintenance mode 1: Continuous charging until the charger automatically cuts off; (Recommended: Long time unused, first time activation)
- Maintenance mode 2: keep the remaining battery power at 70% or more, cumulative full charge more than 12 times; (Recommended: after one year of battery use; if the battery has a slight pressure difference)

3.2 日常维护

■ Daily/Routine Maintenance

最好需要保证每三天/每周至少又一次充满后的均衡维护 (即让充电机自动结束充电,切不可手动提前终止,否则维护失败,每次自动维护的时长由BMS自动计算和控制)

it is best to ensure balanced maintenance after being fully charged at least three days or weekly (that is, let the charger automaticaly end the charging, and must not manually terminate it in advance, otherwise the maintenance will fail, and the duration of each automatic maintenance will be automatically calculated and controlled by the BMS)

3.3 储存建议

Storage Suggestions

- 若SOC≤10%; 立即充电;
- 若10%<SOCS40%; 1个月定期充电一次;
- 若40%<SOC≤80%; 3个月定期充电一次;
- 若80%<SOC≤100%; 6个月定期充电一次;
- o If SOC≤10%; charge immediately.
- If 10%<SOCS40%; regular charging once in 1 month.
- o If 40%<SOC≤80%; 3 months regular charging.
- If 80%<SOC≤100%; 6 months regular charging.

3.4 定期检测

Periodic Test

新电池上线运营的第一个月为磨合期,磨合期过后进行1次全面检查,之后每一年检查一次,但在第四年之后应视情况加大检查频率:

(a) The first month of operation of a new battery is the break-in period, after which a comprehensive inspection is carried out, followed by an inspection once a year, but the frequency of inspection should be increased as appropriate after the fourth year.

序号	可压接线缆	检验方法	判断标准
NO.	ltem	Examination Methord	Standard
1	电池箱体清洁	目测	箱体应无明显灰尘堵塞
'	Battery box cleaning	Visual inspection	The box body should be free from obvious dust blockage
	箱体连接线/显示器接插件检查	目测	箱体上连接线与接插件应连接牢靠且表皮绝缘层无破损
2	Box connection line/display connector inspection	Visual inspection	The connecting wires and connectors on the box should be firmly connected and the skin insulation layer should not be damaged
	箱体固定螺丝	目测	铁箱上的螺栓应固定无松动脱落
3	Box fixing screws	Visual inspection	The bolts on the iron box should be fixed without loosening or falling off
4	显示器检查	目测	显示器外观检查
7	Display Inspection	Visual inspection	Display appearance inspection
	箱体可靠性	目測	1.箱体不存在裂缝,变形,极柱松动,膨胀等异常情况
	相冲引非注	日内	2.所有外漏的固定螺栓,螺母未出现松动,缺失,变形等不良现象
5	Box reliability	Visual inspection	1.There are no abnormalities such as cracks, deformation, loose poles, expansion, etc. in the cabinet
			All leaking fixing bolts and nuts are not loose missing, deformed, etc.
	单只电池温度检测	BMS数据读取	静态时单只电芯表面温度与当前,环境温度相符
6	Single battery temperature detection	From BMS	The surface temperature of a single cell in static state is consistent with the current and ambient temperature
-	系统温差	BMS数据读取	静态的电池温差小于8度
7	System temperature difference	From BMS	The static battery temperature difference is less than 8 degrees
	电池一致性	BMS数据读取	静态压差应在许可范围内 (50mv以内)
8	Battery consistency From		The static voltage difference should be within the allowable range (within 50mv)
	SOC偏差	BMS数据读取	SOC偏差应在许可范围内 (显示SOC与静态平均电压50C的差值小于20%)
9	SOC deviation	From BMS	The soc deviation should be within the allowable range (the difference between the displayed soc and the static average voltage soc is less than 20%)
10	充电机外观清洁	目測	外箱体无明显灰尘堵塞
10	Appearance of the charger cleaning	Visual inspection	No obvious dust blockage in the outer box
	充电机线束检查	目測	箱体上连接线与接插件应连接牢靠且表皮绝缘层无破损
11	Check the charger harness	Visual inspection	The connecting wires and connectors on the box should be firmly connected and the skin insulation layer should not be damaged

安全须知/紧急事故处理 SafetyInstructions/Emergency Handling

4.1 安全须知

Safety Instructions

为了安全使用和保养产品,相关人员必需经过专业培训合格才能上岗,无关人员禁止打开电池箱。 有关人员一定要遵守如下安全说明:

In order to use and maintain the product safely, relevant personnel must be professionally trained and qualified before they can take up their posts. Irrelevant personnel are prohibited from opening the battery box.

The personnel concerned must observe the following safety instructions:

- 1 禁止将电池丢弃到垃圾中;
- 2 严禁拆开、挤压、刺穿或者燃烧:
- 查 在装卸和运输过程中避免剧烈震动;
- 4 严禁将电池暴露在40℃以上的温度中;
- 禁止将其它类型的电池与锂电池串联或并联使用;
- ₫ 在操作和维护电动叉车时,请不要佩戴金银首饰或手表等金属饰品;
- 严禁在没有充电保护线路或者使用非电池生产厂家认可的设备充电;
- 对系统线缆进行连接和拆卸作业时,请断开显示器开关;
- 时刻谨记系统内部存在高电流、即使系统没有运行、当系统断开服务开关后、需用万用表确认
- □ 高压端无电压后,才能进行下一步动作;
- Ⅲ 使用环境要求电池组的工作环境应无腐蚀性、燥炸性和破坏绝缘的气体及导电尘埃,并远离热源:
- 维护保养时,请使用绝缘工具,穿戴绝缘手套、绝缘鞋,维护中使用的绝缘工具(六角扳手、螺栓刀等)、需要用绝缘胶布缠绕较少裸露面积;
- 13 维护作业结束后,请及时清理工具和物料,不要将金属物品放在设备内部或顶部;
- 14 灭火方式:使用二氧化碳或者干粉灭火器灭火,或者用沙土、泥土掩埋;
- **15** 更换电池箱时,请务必断开高压电和低压电,同时卸下服务开关;
- ☑ 客户发现电池供电时间大大缩短或频繁发生故障时,应及时请专业人员对系统进行诊断和维护 作业人员装备:指导文件、万用表、灭火器、安全帽、防护目镜、棉质工作服、棉质劳保手套高压 手套工具、高压绝缘鞋等;
- 1 Do not dispose of the battery in the rubbish.
- 2 Do not disassemble, crush, puncture, or burn it.
- 3 Avoid severe vibration during loading, unloading, and transporting.
- 4 Do not expose the battery to temperatures above 40°C.
- 5 Prohibit the use of other types of batteries in series or parallel with the lithium battery.
- On not wear metal ornaments such as gold or silver jewelry or watches when operating and maintaining the electric forklift truck.
- It is strictly prohibited to charge the battery without charging the protection circuit or using equipment not approved by the battery manufacturer.

- B Disconnect the monitor switch when connecting and disconnecting the system cables.
- Always bear in mind that there is high current inside the system, even if the system is not running, when the system is disconnected from the service switch, you need to use a multimeter to confirm that there is no voltage at the high voltage terminal before you can carry out the next action.
- The working environment of the battery pack should be free from corrosive, explosive and insulation-damaging gases and conductive dust, and away from heat sources.
- Maintenance, please use insulated tools, wear insulated gloves, insulated shoes, maintenance of insulated tools (hexagonal wrenches, bolt cutters, etc.), need to be wrapped with insulating tape to reduce the exposed area.
- After the maintenance work, please clean up the tools and materials in time, do not put metal objects inside or on top of the equipment.
- Fire extinguishing method: use carbon dioxide or dry powder fire extinguisher to extinguish the fire, or bury it with sand or soil.
- Mhen replacing the battery box, please make sure to disconnect the high voltage power and low voltage power, and remove the service switch at the same time.
- 15 When the customer finds that the battery power supply time is greatly shortened or frequent failures occur, the customer should promptly call a professional to diagnose and maintain the system.
- 16 Operator equipment: guidance documents, multimeter, fire extinguisher, helmet, protective goggles, cotton overalls, cotton labour gloves high-voltage gloves tools, high-voltage insulated shoes and so on.

■ 紧急事故处理 Emergency handling

4.2.1 场景~交通事故

- Scene ~ Traffic accident
- 车辆停稳,打开车门,疏散乘客后,拔出钥匙,关闭电源总开关,条件允许情况下,由专业人员操作 断开电池包内部电源回路;
- 根据当地国家或地区的道路交通安全法相关规定处理交通事故
- 通知我司售后部门,在售后部门给出电池安全判定结果前禁止再次使用车辆。
- After the vehicle has stopped, opened the doors and evacuated the passengers, pull out the key, turn off the main power switch and, if conditions permit, have it operated by a professional person to disconnect the internal power circuit of the battery pack.
- Handle the traffic accident according to the relevant provisions of the Road Traffic Safety Law of the local country or region.
- Notify the after-sales department of our company, and prohibit the use of the vehicle again before the after-sales department gives the result of the battery safety judgement.

4.2.1 场景~冒烟/火灾

Scene ~ Smoke/Fire

人员迅速离开车辆, 根据现场情况拨打报警电话

保证人身安全的情况下, 有条件的进行如下操作

1)如果电池线束冒烟起火,使用二氧化碳或者干粉灭火器喷射。

2)如果电池起火,在远距离使用高压水枪灭火。

3)如果不慎吸入浓烟,请尽快转移并就医。

通知所属经销商, 获取进一步的车辆处理意见

如果因充电异常引起的火灾,务必第一时间关闭充电电源,再执行下一步灭火动作。

The personnel leave the vehicle quickly and call the police according to the on-site situation;

Under the condition of ensuring personal safety, perform the following operations conditionally:

- 1) If the battery harness emits smoke or fire, use carbon dioxide or dry powder fire extinguisher to spray it.
- 2) If the battery catches fire, use a high-pressure water gun at a long distance to extinguish the fire.
- 3) If you accidentally inhale heavy smoke, please transfer and seek medical attention as soon as

Notify the dealer to obtain further advice on how to deal with the vehicle.

if a fire is caused by abnormal charging, be sure to turn off the charging power supply at the first timeand then perform the next fire extinguishing action

4.2.1 场景~车辆涉水

■ Scene ~ Vehicle wading

车辆在积水路面行驶时,需注意如下:

When the vehicle is driving on the road with stagnant water, please pay attention to the following:

深度/Depth	速度/Speed	时间/Time
≤ 30cm	≤ 10km/h	≤ 10min

车辆因意外情况落水或遭积水浸泡,需注意如下:

- 1、禁止通电
- 2. 通知所属品牌经销商

因天气或特殊原因、车辆被积水浸泡时、禁止车辆通电、否则可能引发安全风险或造成车辆二次损伤。

If your vehicle falls into the water or is immersed in water due to an accident, you should pay attention to the following

- 1. Prohibit switching on the electricity
- 2. Notify the dealer of the brand to which the vehicle belongs.

When the vehicle is immersed in water due to weather or special reasons, it is prohibited to switch on the electricity of the vehicle, otherwise, it may lead to safety risks or cause secondary damage to the vehicle.

保修政策 The Warranty Policy

5.1 质量保修规定

Quality Warranty Provisions

- 本手册的所有规定适用于所有BSLBATT生产并销售的锂离子电池包(电池系统)。
- 在质量保修期内BSLBATT对其认可量产电池系统的质量缺陷引起的故障,由BSLBATT提供质量保修服务。
- 对于超过质量保修期的产品BSLBATT提供有偿服务。
- 任何不属于BSLBATT责任的故障,均不在质量保修的责任范围内。
- 在质量保修期内,由BSLBATT免费更换来的故障件产权归BSLBATT所有。
- ⑥ 除中国法律的强制性规定外、本手册规定提供的质量保修服务是本公司对客户承担的唯一责任。

**BSLBATT在法律许可下拥有对本手册的最终解释权,保留修改本手册的权力,如有变动恕不另行通知。

- [1] All provisions of this manual apply to all lithium-ion battery packs (battery systems) manufactured and sold by BSLBATT.
- 2 During the quality warranty period, BSLBATT provides quality warranty service by BSLBATT for failures caused by defects in the quality of its approved mass-produced battery systems.
- BSLBATT will provide paid service for products beyond the warranty period.
- Any failure that is not the responsibility of BSLBATT is not covered by the warranty.
- During the warranty period, the property rights of faulty parts replaced by BSLBATT free of charge shall belong to BSLBATT.
- Except for the mandatory provisions of the Chinese law, the quality warranty service provided in this manual is the sole responsibility of the company to the customer.

**BSLBATT reserves the right to make changes to this manual without prior notice.

5.2 质量保修责任豁免范围

Quality warranty liability exemption scope

BSLBATT对如下情况不提供质量保修服务:

- 未按本手册的规定进行正确使用、保养、检查产品而导致的损坏。
- 连接器、接插件等未安装到位而造成的损坏、进水、锈蚀等。
- 使用未经BSLBATT授权许可的充电设备或充电操作不规范而导致的损坏。
- 4 踩踏、重压、跌落、撞击等而导致的损坏。
- 5 未经BSLBATT授权,私自改装、加装、拆卸电池系统导致的损坏。
- 动力电池系统发生故障时,客户未经BSLBATT允许私自对故障处理而导致的损坏。
- ☑ 不可抗力因素,如地震、台风、洪水、化学污染、雷击、冰雹、泥沙、飞石、火灾或人为的故意损坏等 因素导致的损坏。

BSLBATT does not provide quality warranty service for :

- Damage caused by failure to properly use, maintain, or inspect the product by this manual.
- 2 Damage caused by connectors, connectors, etc. not being installed in place, water ingress, rust, etc.
- 3 Damage caused by the use of charging equipment not authorized by BSLBATT or improper charging operations.
- 4 Damage caused by stepping on, crushing, dropping, impact, etc.
- 5 Damage caused by private modification, addition, or disassembly of the battery system without authorization from BSLBATT.
- 6 When the power battery system fails, the customer is not allowed by BSLBATT to deal with the damage caused by the fault.
- Damage is caused by force majeure factors, such as earthquakes, typhoons, floods, chemical contamination, lightning strikes, hail, mud, flying stones, fire, or intentional damage caused by human beings.

5.3 用户资料

User Information

产品型号/Model	
产品编号/Item NO	
购买日期/Purchasing Date	
顾客姓名/Customer Name	
联系方式/Contact Information	

5.4 质保时间

■ Warranty Period

- 质量保修期以BSLBATT与客户购买约定的起始日为准;
- 动力电池系统质保8年或者正常使用12000小时, 以先到者为准;
- 由于使用不当或储存等其他因素造成电池系统非常损坏,属非保修范围。
- o The quality warranty period is based on the start date of the purchase agreement between BSLBATT
- o and the customer;
- The power battery system is warranted for 8 years or 12,000 hours of normal use, whichever comes first; Battery systems that are very damaged due to improper use or other factors such as storage are not covered by the warranty.

5.5 保修记录

■ Records of The Warranty

Serial Number 序号	The Warranty Date 保修日期	Fault And Handling Methods 故障及处理方法	Completion Time 完成 时间	Customer Signature 顾客 签名