

BPS-300MB 产品技术规格书

BPS-300MB product technical specification

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BPS-300MB 产品技术规格书

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1. 引言 introduction

本文件主要描述了 BPS-300MB 便携式储能电源详细技术规格，明确各种接口定义及功能。适用于该产品的的设计验证、生产管理、品质检验、采购、营销推广等环节。

This document mainly describes the detailed technical specification of BPS-300MB,a portable power station and defines various interface definitions and functions. It is suitable for the design verification, production management, quality inspection, procurement, marketing promotion and other links of this product.

2. 参考标准 Reference standard

IEC62133 锂电池产品安全要求 IEC62133 Safety requirements of lithium battery products

UL1642 锂电池包安全要求 UL1642 Safety requirements for lithium battery pack

UL2743 便携式电源包安全要求 UL2743 Safety requirements for portable power station

EN55022 电磁兼容相关 EN55022 Electromagnetic compatibility correlation

IEC60950-1:2005+A1:2009+A2:2013 安规 IEC60950-1:2005+A1:2009+A2:2013 Safety regulations

UN38.3 锂电池产品运输安全要求国际海运危险货物规则 UN38.3 Safety requirements for the transportation of lithium battery products-International Maritime Dangerous Goods Code

PSE 日本电气产品安全法 PSE Japanese electrical product safety law

3. 产品技术性能 Product technical performance

本产品为便携式储能电源,其具有 2 或 3 个交流输出口(300W-220V/110V-50/60Hz)、4 个直流(12V/10A, DC 5.5mm*2.1mm)输出口、1 个点烟口(12V/10A)输出口、2 个 5V/2.4A 输出口、1 个 QC3.0(18W Max)输出口、1 个 Type-C(PD 100W Max)输出口、LCD 屏显示等功能,产品包含直流充电端口,标配 AC 适配器 22V/5A 恒流电源对系统进行充电,也可选配直流太阳能光伏充电或汽车车充口充电。

This product is a portable power station with two or three AC output ports (300W-220V/110V, 50Hz/60Hz), four DC (12V/10A, DC 5.5mm*2.1mm) output ports, and one cigarette lighter (12V/10A) output port, two 5V/2.4A output ports, one QC3.0 (18W Max) output port, one Type-C (PD 100W Max) output port, LCD screen display and other functions, the product includes DC charging port, standard AC adapter 22V/5A constant current power supply to charge the system, DC solar panel charging or car charging is also optional.

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3.1 DC 输入参数 DC Input Parameter

输入额定电压	Input rated voltage	22V
输入电压范围	Input voltage range	12V--26V
最大输入电流	Maximum continuous charge current	5.0A
最大输入功率	Maximum Input power	125W
输入反接保护	Input reverse connection protection	OK
电池组充电截止电压	Battery pack charging cut-off voltage	16.8V $\pm$ 0.2V

3.2 安德森输入参数 Anderson Charging input performance

输入额定电压	Input rated voltage	18V
输入电压范围	Input voltage range	12V--26V
最大输入电流	Maximum continuous charge current	5.0A
最大输入功率	Maximum Input power	125W
输入反接保护	Input reverse connection protection	OK
电池组充电截止电压	Battery pack charging cut-off voltage	16.8V $\pm$ 0.2V

3.3 DC 充电器参数 DC Charger parameters (standard accessories)

输入电压	Input voltage	100V-240V
输入频率	Input frequency	50Hz/60Hz
静态功耗	Static power consumption	0.3W
输出电压	Output voltage	22V
输出电流	Output current	5A
工作温度	Working temperature	-10°C--45°C
工作湿度	Working humidity	5%--95%
认证	Certificates	A variety of adapters meet the corresponding certifications in different regions, see laser carving and certification numbers for details;
输出线长	Output wire length	1.2m

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3.4 USB（无协议）输出参数 USB (no protocol) output port parameters

输出电压	Output voltage	4.75V-5.25V
纹波噪音	Ripple noise	<200mVp-p
输出额定电流	Output rated current	2.4A
输出过流保护	Output overcurrent protection	>3.0A
满载工作效率	Full load efficiency	>85%
输出短路保护	Output short circuit protection	OK

3.5 USB（QC3.0）输出参数 USB（QC3.0）Output port parameters

端口协议	Port protocol	Apple 2.4A、Samsung-5V-2A、DCP-1.5A、QC2.0、QC3.0、Samsung-AFC-9V-12V、Huawei-FCP-9V-12V-24W、Huawei-SCP。
输出电压	Output voltage	5V/9V/12V±5%
纹波噪音	Ripple noise	<200mVp-p
输出额定电流	Output rated current	5V/3A,9V/2A,12V/1.5A
输出过流保护	Output overcurrent protection	>3.3A
满载工作效率	Full load efficiency	>85%
输出短路保护	Output short circuit protection	OK

3.6 Type-C 输出端口参数 Type-C Output port parameters

端口协议	Port protocol	Apple 2.4A、Samsung-5V-2A、DCP-1.5A、QC2.0、QC3.0、QC4.0+、Samsung-AFC、Huawei-FCP、PD3.0 100W。
输出电压	Output voltage	5V/9V/12V/15V/20V±5%
纹波噪音	Ripple noise	<200mVp-p
输出额定电流	Output rated current	(5V/9V/12V/15V)/3.0A,20V/5.0A
输出过流保护	Output overcurrent protection	>5.1A
满载工作效率	Full load efficiency	>85%
输出短路保护	Output short circuit protection	OK

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3.7 DC12V (5.5*2.1mm)、点烟器输出端口参数 DC12V (5.5*2.1mm)、Cigarette lighter output port parameters

输出电压 Output voltage	10.5V-13.4V
输出额定电流 Output rated current	10A
输出过流保护 Output overcurrent protection	>11.4A
满载工作效率 Full load efficiency	>85%
输出短路保护 Output short circuit protection	OK

3.8 AC 220V 交流输出端口参数 AC 220V output port parameters

输出电压 Output voltage	220V±10%
输出电压频率 Output voltage frequency	50Hz±2Hz/60Hz±2Hz
输出波形 Output waveform	正弦波 Pure Sine Wave
额定输出功率 Rated output power(AC)	300W
峰值功率 Peak output power	500W
输出短路保护 Output short circuit protection	OK
负载适应性 Load adaptability	40%额定功率的容性负载、60%额定功率感性负载、 100%额定功率的阻性负载 Capacitive load of 40% rated power, inductive load of 60% rated power, resistive load of 100% rated power
满载工作效率 Full load efficiency	90%
过载保护 Overload protection	>330W
逆变过温保护 Inverter over temperature protection	80°C-90°C

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3.9 AC 110V 交流输出端口参数 AC 110V output port parameters

输出电压 Output voltage	110V±10%
输出电压频率 Output voltage frequency	50Hz±2Hz/60Hz±2Hz
输出波形 Output waveform	正弦波 Pure Sine Wave
额定输出功率 Rated output power(AC)	300W
峰值功率 Peak output power	500W
输出短路保护 Output short circuit protection	OK
负载适应性 Load adaptability	40%额定功率的容性负载、60%额定功率感性负载、 100%额定功率的阻性负载 Capacitive load of 40% rated power, inductive load of 60% rated power, resistive load of 100% rated power
满载工作效率 Full load efficiency	90%
过载保护 Overload protection	>330W
逆变过温保护 Inverter over temperature protection	80°C-90°C

3.10 LED 灯参数 LED light parameters

功率 Power	2-5W
工作模式 Working mode	常亮、高亮、慢闪、快闪 Constant brightness, high brightness, slow flash, fast flash

3.11 储能电池组参数 Parameters of battery pack

电芯型号 Batteries models	18650-2500mAh
电芯连接方式 Cell connection mode	4S8P
标称电压 Nominal voltage	14.8V
电池内阻 Internal resistance of battery	≤100mΩ

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电池容量 Battery capacity	296Wh
电芯放电允许温度范围 Allowable temperature range of cell discharge	-10°C-45°C

3.12 保护板性能参数 Performance of protection board

过充电压保护 Over charge protection	4.2V±0.05V@1cell
过充保护延迟时间 Over charge protection delay time	700ms~1300ms
过充解除电压 Over charge relief voltage	4.15V±0.05V@1cell
过放电压保护 Over discharge protection	2.75V±0.05V@1cell
过放保护延迟时间 Over discharge protection delay time	700ms~1300ms
过放解除电压 Over discharge voltage	3.0V±0.05V@1cell
均衡启动电压 Balanced starting voltage	4.15V±0.05V@1cell
均衡电流 Equalizing current	50~150mA
电池充饱电压 Battery charge voltage	16.8V±0.2V
输出过流保护 Output over current protection	100A~120A
放电过流保护延迟时间 Output over current protection delay time	180ms~350ms
充电过流保护 Charging over current protection	50A~60A
充电过流保护延迟时间 Charging over current protection delay time	11ms~50ms
短路保护 Short circuit protection	OK
休眠电流 Sleep current	<150uA
放电高温保护 Discharge high temperature protection	60°C ± 5°C
放电低温保护 Discharge low temperature protection	<-10°C
充电高温保护 High temperature protection during charging	55°C ± 5°C
充电低温保护 Charging low temperature protection	<0°C

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3.13 其他参数 Other parameters

存储温度 Storage temperature	-20°C-60°C
工作湿度 Working humidity	10%-90%
工作温度 Working temperature	-10°C-40°C
存储湿度 Storage humidity	10%-90%
边充边放 Charging and Discharging	支持 Support
风扇起转条件 Fan start-up conditions	1、逆变器功率最小达到额定功率 50%时或温度达到 40 度； 2、主板温度大于 65°C； 3、电池温度大于 40°C； (当三个条件有一个满足时风扇开始转动)
风扇关断条件 Fan shutdown conditions	1、逆变器功率小于额定功率 50%时或温度小于 40 度； 2、主板温度小于 60； 3、电池温度小于 37 摄氏度； (当三个条件都满足时风扇停止转动)
高温图标闪烁条件 High temperature icon flashing conditions	充电状态：电池温度大于 47°C报警；
	放电转态：电池温度大于 63°C报警； 主板温度大于 85°C，电池主板温度大于 85°C；逆变器温度大于 77°C。
高温图标恢复条件 High temperature icon recovery conditions	充电状态：电池温度小于 46°C恢复；

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	放电状态：电池温度小于 60℃恢复； 主板温度小于 83℃，电池主板温度小于 83℃；逆变器温度大于 76℃。
产品重量 Weight	约 4.8kg
外形尺寸(mm) 长×宽×高 Dimensions (mm) Length×width×height	260*150*180mm
整机认证 Machine certificate	ROHS 2.0、UN38.3、CE、MSDS、PSE、FCC

3.14 按键说明 Key Description

按键控制方式为长按 3 秒；TYPE-C 有负载接入时，自动启动；

The button control mode is long press for 3 seconds;Type-C starts automatically when there is load access.

按键名称 KEY name	功能描述 Function description
LED	LED 键 开启/关闭 LED 灯，按键开启时 LED 指示图标亮,短按一次 LED 灯的模式可切换； LED key Turns on/off the LED light, when the key is turned on, the LED indicator icon is on, short press the LED light mode to switch
AC	AC 键开启/关闭 AC 输出,按键开启时 AC 指示图标亮；短按 AC 按键三次切换交流输出频率； The AC button turns on/off the AC output. When the button is turned on, the AC indicator icon is on, and the AC key is short-pressed 3 times to switch the frequency;
DC	DC 键开启/关闭 DC 输出，按键开启时 DC 指示图标亮； The DC key turns on/off the DC output, and the DC indicator icon lights up when the key is turned on;
USB	USB 键开启/关闭 USB 输出，按键开启时 USB 指示图标亮； The USB key turns on/off the USB output, the USB indicator icon is on when the key is turned on;

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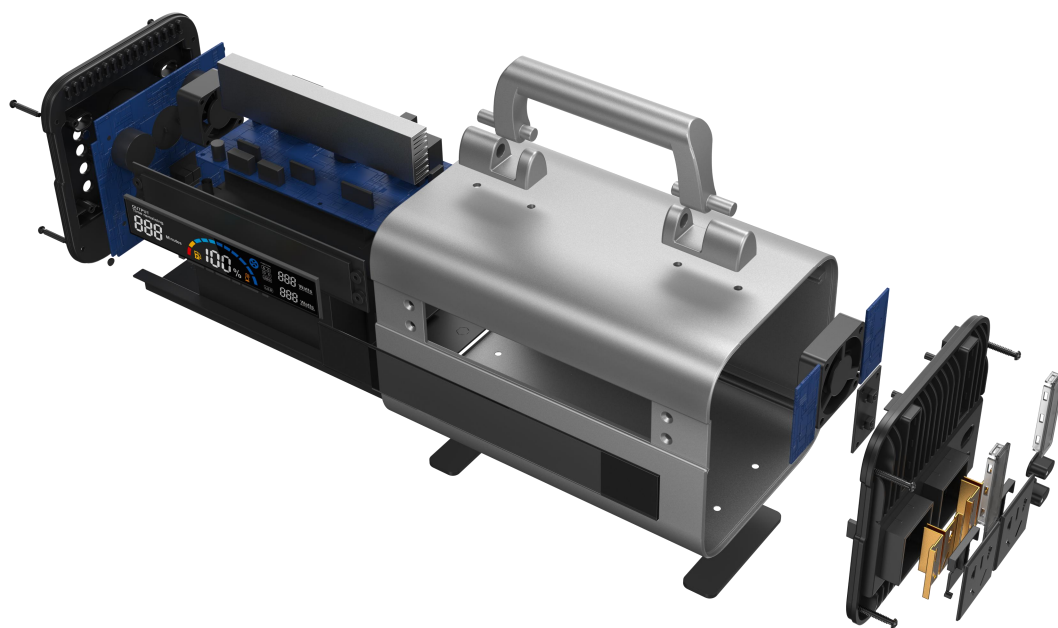
休眠 Sleep function

在打开任何一个输出口时，如果在 5min 之内未检测到有负载接入，此时相应的输出口会自动关闭。（LED 灯除外，LED 打开之后需要手动关闭，不存在休眠的情况）
When opening any output port, if no load access is detected within 5min, the corresponding output port will be closed automatically. (except for the LED light, it needs to be manually turned off after the LED is turned on, and there is no sleep.)

备注 Remark:

- 1.开机后系统自检输入、输出功率、电量、温控和警示等； After booting, the system self-checks input, output power, electricity, temperature control and warnings, etc.;
- 2.端口异常后，长按关闭后，再次长按开启可恢复功能； After the port is abnormal, long press to turn it off, and long press to turn it on again to restore the function;

3.15 结构爆炸图示 Structural explosion diagram



3.16 结构六面图 Structure six-sided diagram

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3.17 显示屏效果图 Screen renderings



序号 NO.	名称 Name	功能 Function
①	输出剩余时间 Output remaining time	根据不同负载自动计算，输出所剩时间 Automatically calculate according to different loads, output the remaining time
②	电量指示格 Power indicator	根据百分比将电量分 11 格，其中 10%为黄色和蓝色，5%为红色 Divide the electricity into 11 parts according to the percentage, 10% in yellow and blue, and 5% in red
③	低电量图标 Low battery icon	低电量警报，当电量低于 10%就会出现低电量图标 Low power alarm, when the power is less than 10%, it will flash
④	电量百分比 Battery Percentage	显示剩余电量百分比 Displays the percentage of remaining power.

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⑤	温度计图标 Thermometer Icon	当产品温度过高时，温度计会闪烁 When the product temperature is too high, the thermometer flashes
⑥	输出状态指示 Output status indication	每一个输出状态对应的有 DC,AC,USB-A,USB-C 和 LED 这五个状态 Each output state corresponds to DC, AC,USB-A,USB-C and LED
⑦	输入功率 Input power	显示充电功率 Display charging power
⑧	输出功率 output power	输出负载功率 Output load power
⑨—⑩	交流输出频率 AC output frequency	打开 AC 功能后，屏幕显示当前交流输出频率对应的图标 After the AC function is turned on, the screen displays the icon corresponding to the current AC output frequency

4 标识、包装、运输、贮存 Identification、packaging、transportation、storage

4.1 标识 Identification

每个机器上包含下列中/英文标识：产品名称、型号、电池能量、额定功率、电芯类型、充电功率、各个输出口相关参数，工作温度，其中允许将执行标准编号、厂址、邮编和联系电话标识印刷在包装或使用说明书中。

所有标识应清晰完整、粘贴牢固、平整、不起泡、可明显辨认，不能手工填写。

Each machine contains the following Chinese / English identifications: product name, model, battery energy, rated power, cell type, charging power, relevant parameters of each output port, and operating temperature. It is allowed to print the executive standard number, factory address, post code and contact phone number in the package or operation manual.

All identifications shall be clear, complete, firmly pasted, flat, non foaming, clearly identifiable, and cannot be filled in manually.

4.2 包装 Packaging

部件 Component	内容 Content	数量 Quantity
彩箱 Color box	BPS-300MB 彩箱 BPS-300MB Color box	件数/Quantity N=1
	1. 彩箱丝印内容是否正确： Whether the screen printing content of color box is correct; 2. 彩箱条形码贴纸是否正确 Whether the color box barcode sticker is correct	/

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		3. 彩箱是否有脏污, 破损等不良现象 Whether the color box is dirty or damaged	
内托 EVE		珍珠棉: 含上下盖一整套 PE foam including top and bottom	件数/Quantity N=1
配件 Accessory	适配器 Adapater	DC 输出接口 5.5*2.1*10 直筒式 线长 1.0 米带磁环 DC output interface 5.5*2.1*10 straight barrel type wire length 1.0m with magnetic ring	件数/Quantity N=1
	AC 线 AC wire	AC 输入线, 线长 1.2 米 AC input wire L=120cm	件数/Quantity N=1
	说明书 Instructions	匹配相应标准的说明书 Instructions matching corresponding standards	件数/Quantity N=1
包装袋 Packing bag		透明 PE 袋 Transparent bag: 595*555*0.06mm	件数/Quantity N=1
外箱 Outer box		纸箱 Carton: 320*240*310 mm	件数/Quantity N=1
		1、外箱封箱胶带为透明胶带; The outer box sealing tape is transparent tape; 2、外箱上贴纸是否正确, 有无漏贴等现象; Whether the stickers on the outer box are correct and whether there are missing stickers; 3、外箱丝印内容及数量, 颜色等内容是否正确; Whether the contents, quantity, color and other contents of the silk screen printing of the outer box are correct;	/

4.3 运输 Transportation

产品应包装成箱进行运输, 在运输过程中应防止剧烈振动、冲击或挤压, 防止日晒雨淋, 可使用汽车、火车、轮船等交通工具进行运输。

The products shall be packed into boxes for transportation. During transportation, violent vibration, impact or extrusion shall be prevented to prevent sunlight and rain. Vehicles such as automobiles, trains and ships can be used for transportation.

锂离子电池产品一般不允许使用飞机运输, 特殊情况下需要使用飞机运输时, 需要按照 UN38.3 要求做相关的认证。

Generally, lithium-ion battery products are not allowed to be transported by air. In special

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circumstances, when it is needed to be transported by air, relevant certification shall be carried out according to the requirements of UN38.3.

4.4 贮存 Storage

本产品内含锂离子电池，在贮存时，应注意电池包的电量和整机贮存环境温度、湿度。

This product contains lithium-ion batteries. When storing, pay attention to the power of the battery pack and the temperature and humidity of the whole storage environment.

电池组通常以 45%~55% 荷电状态储存在环境温度为 25°C±5°C、相对湿度不大于 75% 的清洁、干燥、通风的室内，应避免与腐蚀性物质接触，应远离火源及热源。

The battery pack is usually stored in a clean, dry, and ventilated room with an ambient temperature of 25°C±5°C and a relative humidity of not more than 75% at 45% ~ 55% charged state. Avoid contact with corrosive substances and keep away from fire sources. And heat source.

从制造厂家出货之日起，建议用户每储存 3 个月按下面的方法对锂电池进行一次维护：

From the date of delivery, it is recommended that the user should maintain the lithium battery every 3 months according to the following methods:

在 25°C±5°C 环境温度下，充电（光伏充或车充或适配器充）至截止，然后放电（建议使用交流输出，给一些家用电器供电）至停止输出，最后充电至电池包规定的储存荷电状态 45%~55% SOC，以延长电池的使用寿命。

At 25°C±5°C temperature, charge (solar panel charge or car charge or adapter charge) to full, then discharge (AC output is recommended to supply power to some household appliances) to empty, and finally charge to 45%~55% SOC, so as to prolong the cycle life of battery.

注：当机器因电池包电压过低而关机，用户必须在 30 天内对电池进行充电，否则电池将有损坏的风险。**Note: when the machine is shut down due to low battery pack voltage, the user must charge the battery within 30 days, otherwise the battery will be damaged.**

5 使用规程及安全说明 Operating procedures and safety instructions

5.1 使用注意事项 Precautions for use

1、使用该产品时，请控制在额定功率范围内使用。

When using this product, please control the use within the rated power range.

2、请使用原装适配器对该产品进行充电，切勿私自更换适配器。

Use the original adapter to charge the product, do not replace the adapter without permission.

5.2 使用说明 Instructions

1、使用电池前，请仔细阅读规格书。

Please read the specification carefully before using the battery.

2、在使用过程中，应远离热源、高压，切勿摔打。

During use, keep away from heat source and high pressure, and do not make it fall.

3、切勿将电池正负极短路，切勿自己拆装电池，也勿让电池放在受潮处，以免发生危险。

Do not short circuit the positive and negative poles of the battery, do not disassemble the battery by yourself,

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and do not put the battery in the damp place, so as to avoid danger.

4、长期不用时，请将电池储存完好，让电池处于半荷电状态。请用不导电材料包裹电池，以避免金属直接接触电池，造成电池损坏，将电池保存阴凉干燥处。

When not in use for a long time, please store the battery in good condition and keep the battery in a half-charged state. Please wrap the battery with non-conductive material to avoid direct metal contact with the battery, causing damage to the battery. Keep the battery in a cool and dry place.

5、废弃电池请安全妥当处理，不要投入火中或水中。

Waste batteries should be handled safely and properly. Do not put them into fire or water.

6、如果将电池用于其他设备，请与供应商咨询，不得擅自将本电池包用于其他系统。

If the battery is used for other equipment, please consult with the supplier, and do not use the battery pack for other systems without authorization.

5.3 危险警告 Danger Warning

1、禁止拆装产品内部的电池

It is forbidden to disassemble the battery inside the product

电池内部具有保护机构和保护电路可以避免发生危险。不合适的拆装会损坏保护功能，将会造成让电池发热、冒烟、变形或燃烧。

The protection mechanism and protection circuit inside the battery can avoid danger. Improper disassembly and assembly will damage the protection function and cause the battery to heat, smoke, deform or burn.

2、禁止让产品内部的电池短路

Do not short circuit the battery inside the product

不要将电池的正负极用金属连接，也不要将电池组与金属片放在一起存储和移动。如果电池被短路，将会有超大电流流过，将会损坏保险丝。

Do not connect the positive and negative electrodes of the battery with metal, do not store and move the battery pack together with the metal sheet. If the battery is short circuited, there will be a large current flow, which will damage the fuse.

3、严禁加热和焚烧产品内部的电池

It is strictly forbidden to heat and burn the battery inside the product

加热和焚烧电池将会造成电池隔离物的溶化、安全功能丧失或电解质燃烧，过热就会使电池发热、冒烟、变形或燃烧。

Heating and burning the battery will cause the dissolution of the battery insulator, loss of safety function or electrolyte burning. Overheating will cause the battery to heat, smoke, deform or burn.

4、避免在热源附近使用电池

Avoid using batteries near heat sources

不要在火源、烤炉附近或超过 80℃的环境中 使用电池，过热将会导致电池内部短路，使电池发热、冒烟、变形或燃烧。

Do not use the battery near the fire source, oven or in the environment over 80℃. Overheating will lead to internal short circuit of the battery, causing the battery to heat, smoke, deform or burn.

5、禁止浸泡产品使内部的电池被弄湿

Do not soak the product to wet the internal battery

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不要弄湿电池，更不能将电池投入水中，否则会造成电池内部保护电路和功能丧失及发生不正常的化学反应，电池有可能发热、冒烟、变形或燃烧。

Do not wet the battery, and do not put the battery into water. Otherwise, the internal protection circuit and function of the battery will be lost and abnormal chemical reaction will occur. The battery may be heated, smoking, deformed or burned.

6、禁止带电拆机

No live dismantling

产品工作时，内部有高压，拆机前一定要先关机，确保所有的输出接口都没有电压。

When the product is working, there is high voltage inside. It must be shut down before dismantling to ensure that all output interfaces have no voltage.

7、禁止破坏电池

Do not damage the battery

禁止用金属凿入电池、锤打或摔打电池或其他方法破坏电池，否则会造成电池发热、冒烟、变形或燃烧，甚至会发生危险。

It is forbidden to chisel the battery with metal, hammer or drop the battery or damage the battery by other means, otherwise it will cause the battery to heat, smoke, deform or burn, and even cause danger.

8、禁止在产品内部的电池主体上直接焊接

Direct welding on the battery body inside the product is prohibited

过热将会造成电池隔离物的溶化、安全保护功能丧失，使电池发热、冒烟、变形或燃烧。

Overheating will cause the dissolution of the battery insulator and the loss of safety protection function, which will make the battery heat, smoke, deform or burn.

9、不要直接接触及漏液电池

Do not touch the leaking battery directly

渗漏的电解液会造成皮肤不适，万一电解液进入眼睛，尽快用清水冲洗，并迅速送医院处理。

Leakage of electrolyte will cause skin discomfort. In case of electrolyte entering eyes, rinse with water as soon as possible and send to hospital for treatment.

5.4 危险类型 Types of Hazards

客户知悉在电池使用和操作过程中存在以下潜在的危险：

The customer should be aware of the following potential hazards during battery use and operation:

1、操作者在操作时可能会受到化学品、电击或者电弧的伤害。尽管人体对遭受直流电与交流电的反应不同，但是高于 50V 的直流电压与交流电对人体的伤害都是比较严重的，因此客户必须在操作中采取保守的姿势以避免电流的伤害。

Operators may be injured by chemicals, electric shocks or electric arcs during operation. Although the human body responds differently to direct current and alternating current, DC voltage and alternating current higher than 50V are more serious to the human body. Therefore, customers must take a conservative posture during operation to avoid current damage.

2、存在来自电池中的电解液的化学风险。There is a chemical risk from the electrolyte in the battery.

3、在操作电池和选择个人防护装备时，客户及其雇员必须考虑到以上潜在的风险,防止发生意外短路，造成电弧、爆炸或热失控。

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When operating the battery and selecting personal protective equipment, the customer and its employees must take into account the above potential risks to prevent accidental short circuit and cause arc, explosion or heat out of control.

4、产品工作时，内部有高压，用户必须在操作中采取保守的行为以避免高压伤害。

When the product works, there is high pressure inside. The user must take conservative actions in operation to avoid high pressure injury.