



便携式智能户外电源

WPE460

产品说明书

在使用本产品前,请务必先仔细阅读本使用说明书。

请务必妥善保管好本书,以便日后能随时查阅(保留备用)。

请在充分理解本书内容的基础上,正确使用。

厦门储元世纪新能源科技有限公司

产品介绍

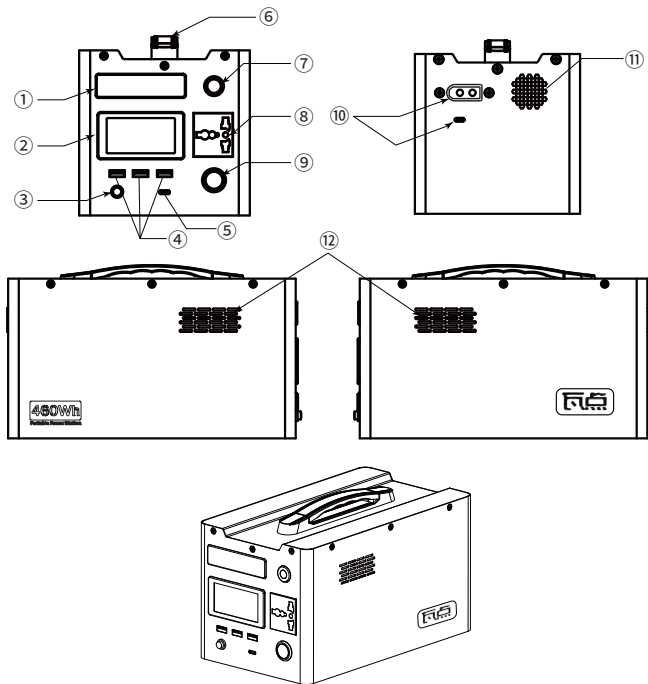
WPE460便携式智能户外电源采用礼盒式包装,重量轻(约6.5Kg),体积小(27*15.5*15cm),轻巧便携,搭配顶部的力学提手,单手即可稳固提起,专为户外用电而生。

它采用全新原厂的汽车级A品磷酸铁锂电芯,内置含有双监测芯片的车规级智能控制系统(BMS),能保证持续稳定的功率输出,做到过充、过放、过流、短路、低电压、过压、高低温八重防护措施。

主界面搭载LCD电量数显屏,能显示当前开启的实时输入输出功率、剩余电量和剩余用电时间;配置三个USB接口,支持最高18W输出,下方配置Type-C接口,支持最高100W PD输出,能为手机、笔记本、相机、摄影灯、投影仪灯设备直接供电,无需携带额外的充电适配器;

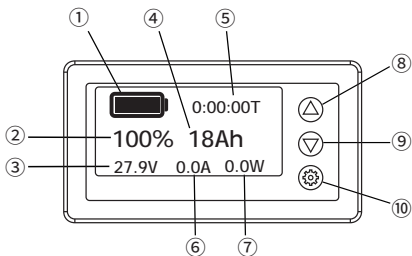
此外还配置有符合国标标准的AC强电接口,内部设有安全防护门,最高可支持220V 600W正弦波输出功率,同时配有AC独立控制开关按钮,让户外用电更安全。

外观功能

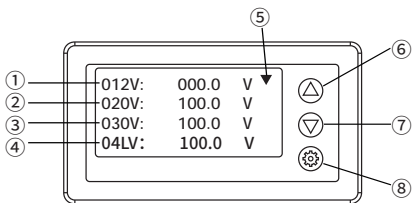


- | | | | |
|-----------|------------|-----------|-------|
| ① 灯 | ④ USB 接口 | ⑦ LED控制开关 | ⑩ 充电口 |
| ② 电量显示 | ⑤ Type-C接口 | ⑧ AC插座 | ⑪ 进风口 |
| ③ USB控制开关 | ⑥ 提手 | ⑨ AC控制开关 | ⑫ 出风口 |

屏幕功能



- ① 电量图标
- ② 容量百分比
- ③ 电压
- ④ 当前容量
- ⑤ 剩余时间
- ⑥ 电流
- ⑦ 功率
- ⑧ 置满容量(长按3秒)
- ⑨ 置零容量(长按3秒)
- ⑩ 进入设置(长按3秒)



- ① 零容量电压
- ② 过压报警
- ③ 过流报警
- ④ 低压报警
- ⑤ 选择设置行光标
- ⑥ 修改设定值
(短按一秒)
- ⑦ 选择加减位(短按一秒)
- ⑧ 进入项目行(长按三秒)
保存退出(短按一秒)

屏幕显示设置

参数设置			
菜单	调节范围	默认值	注释
01ZV(零容量电压)	0.0-100V	0.0V	低于此电压后容量自动置为0%，在不了解电池组电压特性(放空电压)情况下，请勿设置该值
020V(过压报警)	0.0-100V	100V	高于此电压时，则电压值闪烁，蜂鸣器每隔500毫秒间断响
030C(过流报警)	0- 量程最大值	量程最大值	高于此电流时，电流值闪烁，蜂鸣器每隔500毫秒间断响
04LV(低压报警)	0.0-过压值	0	低于此电压时，电压值闪烁，蜂鸣器每隔500毫秒间断响
05LB(低容量报警)	0-100%	0%	低于此容量时，百分比和电池符号闪烁，蜂鸣器每隔500毫秒间断响
06HT(高温报警)	-9-99°C	99°C	高于此温度时，温度值闪烁，蜂鸣器每隔500毫秒间断响(选配)
07VC(电压值微调)	根据需要	-	当显示电压值有偏差时可以在一定范围内进行调节
08CC(电流值微调)	根据需要	-	当显示电流值有偏差时可以在一定范围内进行调节
09CZ(电流零点校准)	根据需要	-	在空载时电流不为0，需要零点校准
10TC(温度值微调)	根据需要	-	当显示温度值有偏差时可以在一定范围内进行调节。(选配)
11CA(电池有效容量)	根据需要	-	自动测试容量，特殊情况下可手动设置
12FV(满容量电压)	根据需要	0	高于此电压后容量自动置为100%，只有在手动模式下此项起作用
13LK(菜单锁)	LOCK/ UnLOCK	UnLOCK	只有把菜单锁打开才能修改01-12项菜单内容(LOCK关闭菜单锁/UnLOCK打开菜单锁)
14DF(恢复默认值)	YES/NO	NO	选择YES，当前参数全部恢复为出厂设置

技术参数

基本参数

额定能量	460Wh@5hr
外形尺寸	270*155*150mm
重量	≈6.5KG

特性

交流输出电压	220V±10% (50Hz)
交流输出功率	220V/600W (1000W 峰值)
充电口输入电压	29.2V Max
Type-C输入功率	100W Max
输出电压波形	正弦波 (Sine wave)
循环寿命	≥2000次

运行条件

工作温度	充电	0°C~45°C
	放电	-20°C~45°C
相对湿度	20~95% (No condensation)	
储存温度	-20°C~45°C	
储存时间	12个月@20°C~25°C	

可供电设备

USB端口: 智能手机、MP3播放器、数码相机、电子阅读器、平板电脑等。

交流电源: 笔记本电脑、投影仪、显示屏、家电等。

常用电器的功率和待机时间 (仅供参考):



电饭锅(200W)

2小时



车载冰箱(65W)

6小时



电风扇(50W)

7.8小时



游戏机(45W)

8.7次



相机(36W)

10.9次



无人机(60W)

6.5次



笔记本电脑(90W)

4.3次



苹果 11 pro

31.8次



平板电脑

11.6次



音响(60W)

6.5小时



投影仪(90W)

4.9次



监控

49小时

操作说明

1. 首次使用时, 应先完全充满电(4-5Hrs), 再完全放电至电源自我保护停止放电。在此期间, 控制中心将自动记录最大和最小电压电流信号, 作为后续显示容量划分依据。否则, 液晶屏幕显示数据与实际数据会有一定偏差, 或始终显示100%的电量。
2. 使用时, 充电器输入和TYPE-C两种输入电源只能选择一种输入, 不能两种电源同时输入。
3. 除AC220V输入电源, 其余输入及输出正负极性不能互换。
4. 充放电时, 均应先关闭电源开关, 方可拔插输入或输出电缆。严格禁止带电拔插, 以免造成人员或设备安全事故。
5. 如出现异常(如过流、短路)等情况时, 电源进入自我保护模式, 该模式下液晶模块无显示, 但可以切断输出。随后可使用TYPE-C, 进入充电模式, 电源自动激活。
6. 充电时, 电源首先会进入大电流充电模式, 当接近充满时, 电流会逐渐下降, 最后趋近于零。放电时, 当电池组电压接近系统最低电压时, 会自动保护并停止放电。最终停止放电电压与放电电流大小有关。
7. 液晶背光说明: 充电模式下, 液晶背光长亮; 放电模式时, 液晶背光长亮; 既不充电又不放电且开关开启时, 背光关断, 但电池各参数均会显示。
8. 当储能电量用尽时, 电源会进入保护状态, 需用TYPE-C输入激活进入充电模式。

注意事项

1. 第一次使用电池,需将电池充满电后再使用!
2. 勿将电池组投入水中或将其浸湿!
3. 禁止在火源或极热条件下给电池组充电!勿在热源(如火或加热器)附近使用或贮存电池组!若电池泄漏或发出异味,应立即将其从接近明火处移开。
4. 勿将正负极接反!
5. 勿将电池组投入火中或给电池组加热!
6. 禁止用导线或其他金属物体将电池组正负极短路!.
7. 禁止用钉子或其他尖锐物体刺穿电池组壳体,禁止锤击或脚踏电池组!
8. 禁止以任何方式分解电池组和电池!
9. 禁止将电池组置于微波炉或压力容器中!
10. 如果电池组发出异味、发热、变形、变色或出现其他任何异常现象时不得使用;若电池组正在使用或充电,应立即断开电池连接,停止使用或充电!
11. 不能在高温环境中使用电池组,如阳光直接照射时或在夏天的车内。否则电池组会过热,这样就会影响性能、缩短电池组的使用寿命!
12. 如果电池漏液后电解液进入眼睛,不要用手揉擦,应立即用水冲洗,并立即寻求医疗救助。如不及时处理,眼睛将会受到伤害!
13. 环境温度会影响放电容量,环境温度超出标准环境时($25\pm 5^{\circ}\text{C}$),放电容量会有所降低!

特别注意事项:

14. 电池组在充电过程中,如果出现异味、异常声响,请立即停止充电。
15. 电池组在放电过程中,如果出现异味、异常声响,请立即停止放电。
16. 如果出现上述现象,请与厂家联系,请勿私自拆卸。

包装清单

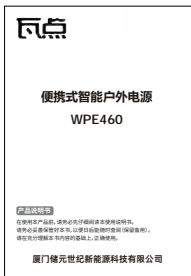
- ① WPE460储能 X1
- ② 电源适配器 X1
- ③ 说明书 X1
- ④ 包装布包 X1



①



②



③



④

常见问题

故障现象	故障原因	故障排除
AC无输出	AC开关无开启	按照产品说明书要求开启AC开关
	电源已断电保护	按照操作说明对电源进行充电
USB无输出	USB开关无开启	按照产品说明书要求开启AC开关
	输出线插头松动	检查充电线是否插牢固
电池组不能充电	充电器非我司原装	检查充电器是否为我司原装充电器
	电源保护,未激活	先用TYPE-C输入激活,才可进行充电器充电

贮存、维护与运输

1. 贮存

电池组需长期贮存时, 请将电池组充电至70%左右的电量, 充电1~3小时即可, 放置于干燥、通风处, 每六个月用充电器充电1~2小时。

电池组与充电器应贮存在清洁、干燥、通风处, 应避免与腐蚀性物质接触, 远离火源及热源。

2. 运输

电池组与充电器应包装后进行运输, 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、飞机等交通工具进行运输。

3. 维护

a. 电池组贮存时, 电池应有40%~70%的电量。

b. 电池组长期不使用时, 建议每六个月左右进行补充一次电, 用充电器补充1~2h即可。

c. 在维护过程中, 请勿自行重新装卸电池组中的电池, 否则将会引起电池性能的下降。

d. 不得擅自拆换电池组中的任何电池, 严禁解剖电池。

售后服务卡



用户名称: _____

电 话: _____

地 址: _____

电子邮箱: _____

故障原因: _____

处理情况: _____

交验日期: _____

维修人员: _____

此服务卡必须与发票一并出示,方为有效。

请填写服务卡上所需资料,确保合乎保修原则。

如有任何涂改,此卡作废。

产品信息及技术支持

- 1) 如需要查询任何产品相关信息(规格说明、操作方法、售后服务等),请与厦门储元世纪新能源科技有限公司的业务经办人联系。
- 2) 更多产品、服务信息可随时咨询我们。



Portable Intelligent Outdoor Power Station

WPE460

Product Manual

Please read this manual carefully before using this product.

Please take good care of this book so that you can refer to it at any time.

Please fully understand the content of this manual on the basis of correct use.

Product introduction

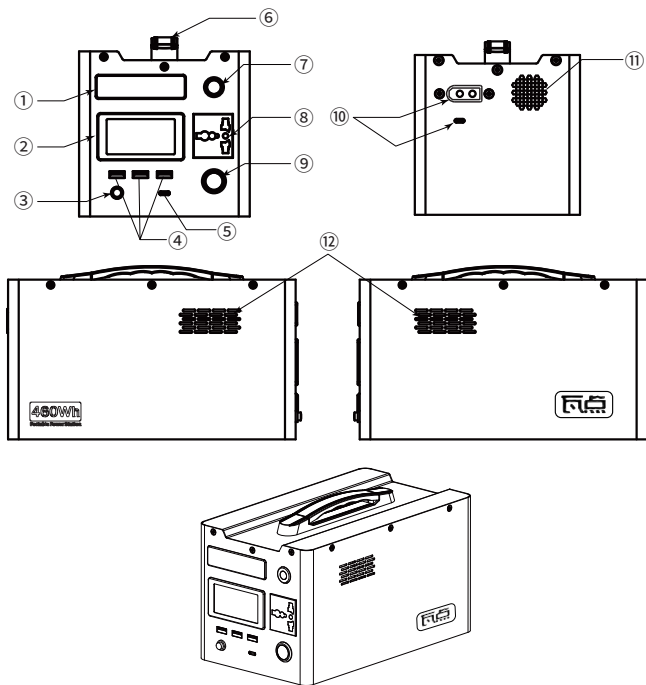
WPE460 Portable Intelligent Outdoor Power Station is packed in gift box with light weight (about 6.5KG) and small size (27*15.5*15cm), light and portable, which is equipped with the top mechanical handle for one hand lifting. It is designed for outdoor electricity.

It adopts the new original automotive grade A lithium iron phosphate cells with double monitoring chip vehicle gauge level intelligent control system (BMS) to ensure continuous and stable power output to make the battery keep the eight protective measures: over charge, over discharge, over current, short circuit, low voltage, over voltage, high and low temperature.

The main interface is equipped with LCD power digital display screen, which can display the current real-time input and output power, remaining power and remaining power time, Three USB ports are configured to support up to 18W output, which can directly supply power to mobile phones, laptops, cameras, photography lights and projector lights without carrying additional charging adapters.

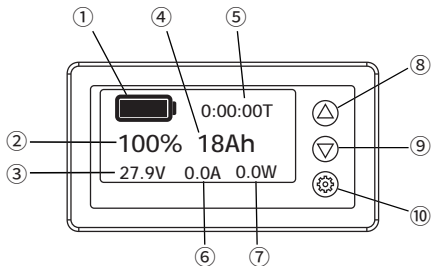
Besides, it is equipped with AC strong electric interface in line with national standard, and it is equipped with safety protective door, which can support 220V 600W sine wave output power up to the maximum. At the same time, it is equipped with AC independent control switch button, so that outdoor electricity is safer.

Appearance Function

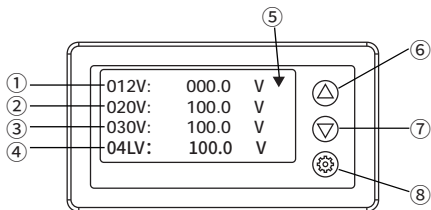


- | | | |
|----------------------|----------------------|---------------------|
| ① Light | ⑤ Type-C Port | ⑨ AC Control Switch |
| ② Battery Indicator | ⑥ Handle | ⑩ Charging Port |
| ③ USB Control Switch | ⑦ LED Control Switch | ⑪ Air Intake |
| ④ USB Port | ⑧ AC Socket | ⑫ Air Outlet |

Screen function



- ① Electricity quantity icon
- ② Capacity percentage
- ③ Voltage
- ④ Current Capacity
- ⑤ Remaining time
- ⑥ Current
- ⑦ Power
- ⑧ Full Capacity (hold 3 secs)
- ⑨ Set the capacity to zero (hold 3 secs)
- ⑩ Enter Settings (hold 3 secs)



- ① Zero Capacity voltage
- ② Over pressure alarm
- ③ Over current alarm
- ④ Low pressure alarm
- ⑤ Select and set line cursor
- ⑥ Modify set value (Press 1 sec)
- ⑦ Select addition or subtraction (Press 1 sec)
- ⑧ Access the project line (Press 3 secs)
Save and exit (Press 1 sec)

Screen display setting

Parameter settings			
Menu	Setting range	Default	Notice
01ZV (Zero capacity voltage)	0.0-100V	0.0V	If the voltage is lower than this value, the capacity is automatically set to 0%. Do not set this value when the voltage feature of the battery pack (outvoltage) is not available
020V (Over voltage alarm)	0.0-100V	100V	If the voltage is higher than this, the voltage value flickers and the buzzer rings intermittently every 500 ms
030C (Over current alarm)	0- Max. range value	Max. range	Above this current, the current value flickers and the buzzer sounds intermittently every 500 ms
04LV (low voltage alarm)	0.0-Over voltage value	0	Below this voltage, the voltage value flickers and the buzzer rings intermittently every 500 ms
05LB (Low capacity alarm)	0-100%	0%	Below this capacity, the percentage and battery symbol will flash, and the buzzer rings intermittently every 500 milliseconds
06HT (High temperature alarm)	-9-99°C	99°C	When the temperature is higher than this, the temperature flashes and the buzzer rings intermittently every 500 ms (optional)
07VC (voltage value fine-tuning)	as required	—	When the display voltage value deviation can be adjusted in a certain range
08CC (Fine adjustment of current value)	as required	—	When the display current value is deviated, it can be adjusted within a certain range
09CZ (current zero point calibration)	as required	—	Zero calibration is required when the current is not 0 at no load
10TC (Fine tuning of temperature value)	as required	—	When the display temperature value deviation can be adjusted in a certain range. (Optional)
11CA (battery effective capacity)	as required	—	Automatic test capacity, special circumstances can be manually set
12FV (full capacity voltage)	as required	0	When the voltage is higher than this, the capacity is automatically set to 100%. This function only works in manual mode
13LK (Menu lock)	LOCK/UnLOCK	UnLOCK	01-12 menu contents can be modified only if the menu lock is turned on (LOCK turns menu lock off /UnLOCK turns menu lock on)
14DF (Restore default value)	YES/NO	NO	Select YES to restore all current parameters to Factory Settings

Technical Specification

Technical Specification		
Rated energy		460Wh@5hr
Overall dimension		270*155*150mm
Weight		≈6.5KG
Feature		
AC output voltage		220V±10% (50Hz)
AC output power		220V/600W (1000W peak)
DC input voltage		29.2V Max
DC input power		100W Max
Output voltage waveform		Sine wave
Cycle life		≥2000 times
Operating Condition		
Operating temperature	Charge	0°C~45°C
	Discharge	-20°C~45°C
Relative humidity		20~95% (No condensation)
Temperature of storage		-20°C~45°C
Time of storage		12 months@20°C~25°C

Power supply equipment

USB ports: Smart phones, MP3 players, digital cameras, e-readers, tablets, etc.

AC power supply: Laptop, projector, display screen, home appliances, etc.

Power and standby time of common electrical appliances

(For reference only) :



electric cooker(200W)

2 Hours



Car refrigerator (65W)

6 Hours



Electric fan (50W)

7.8 Hours



Game machine(45W)

8.7 Times



Camera(36W)

10.9 Times



UAV (60W)

6.5 Times



Laptop (90W)

4.3 Times



i phone 11 pro

31.8 Times



Tablet

11.6 Times



Sound (60W)

6.5 Hours



Projector (90W)

4.9 Times



Monitoring

49 Hours

Operation Description

1. For initial use, it should be fully charged (4-5Hrs) and then fully discharged until the power supply self-protection stops discharge. During this period, the control center will automatically record the maximum and minimum voltage and current signals as the basis for the subsequent display capacity division. Otherwise, the LCD screen display data and the actual data will have a certain deviation, or always show 100% power.
2. Only one input power supply can be selected from charger input and TYPE-C during use, not both at the same time.
3. Except for AC220V input power supply, other input and output positive and negative polarity cannot be exchanged.
4. When charging and discharging, the power switch should be turned off first, and the input or output cable can be unplugged. Do not plug or unplug the device with power supply. Otherwise, personnel or equipment accidents may occur.
5. In case of abnormal conditions (such as overcurrent, short circuit), the power supply enters the self-protection mode, in which the LCD module has no display, but the output can be cut off. Then you can use TYPE-C to enter the charging mode and the power supply will be automatically activated.
6. The power supply will first enter the high-current charging mode during charging, and when it is close to full, the current will gradually drop and finally approach zero. During discharge, when the battery's voltage is close to the lowest system voltage, the system automatically protects and stops discharging. The final stopping voltage is related to the discharge current.
7. LCD backlight description: under charging mode, LCD backlight is constantly on; under discharge mode, the LCD backlight is constantly on. Neither charge nor discharge, and the switch is on, the backlight is off, but the battery parameters are displayed.
8. When the energy stored is exhausted, the power supply will enter the protection state, and activation is by TYPE-C input to enter into the charging mode.

Precautions

1. The first time to use the battery, you need to fully charge the battery before use!
2. Do not put the battery pack into water or get it wet!
3. Do not charge the battery pack in fire or in extremely hot condition! Do not use or store battery packs near heat sources such as fire or heaters! If the battery leaks or smells, remove it from an open flame immediately.
4. Do not reverse the positive and negative electrodes!
5. Do not put the battery pack into the fire or heat the battery pack!
6. Do not use wires or other metal objects to short circuit the positive and negative electrodes of the battery pack!
7. Do not pierce the battery pack housing with nails or other sharp objects, and do not hammer or pedal the battery pack!
8. Do not disassemble the battery pack and battery in any way!
9. Do not place the battery pack in the microwave or pressure vessel!
10. Do not use the battery pack if it gives off odor, heat, deformation, discoloration or any other abnormal phenomenon. If the battery pack is being used or charged, disconnect the battery immediately and stop using or charging it!
11. Do not use the battery pack in a high temperature environment, such as in direct sunlight or in a car in summer. Otherwise, the battery pack will overheat, which will affect the performance and shorten the life of the battery pack!
12. If the electrolyte gets into your eyes after battery leakage, do not rub it with your hands. Rinse with water immediately and seek medical attention immediately. If not handled in time, eyes will be hurt!
13. The ambient temperature will affect the discharge capacity. When the ambient temperature exceeds the standard environment($25\pm 5^{\circ}\text{C}$), the discharge capacity will be reduced!

Special Notes:

14. Stop charging the battery immediately if any peculiar smell or abnormal sound occurs during the charging process.
15. If any peculiar smell or abnormal sound occurs during battery discharge, stop discharging the battery pack immediately.
16. If the above phenomenon occurs, please contact the manufacturer, do not disassemble without permission.

Packing List

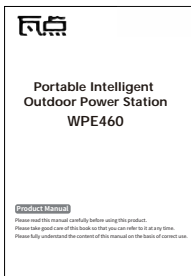
- ① WPE460 power station X1
- ② Power adapter X1
- ③ Operation manual X1
- ④ Packing cloth package X1



①



②



③



④

FAQ (frequently asked question)

Fault Symptoms	Cause of failure	Trouble shooting
AC no output	The AC switch is not enabled	Turn on the AC switch according to the Product Manual
	The power supply is off for protection	Follow the Product Manual to charge the power supply
USB no output	USB switch is not on	Follow the Product Manual to turn on the AC
	The plug of the output cable is loose	Check whether the charging cable is securely inserted
The battery pack cannot be charged	The charger is not our original	Check whether the charger is our original charge
	Power protection, not activated	Use TYPE-C input to activate before charging the charger

Storage, Maintenance and Transportation

1. Storage

When storing the battery pack for long-term storage, charge the battery pack to about 70% of the capacity for 1~3 hours. Place it in a dry and ventilated place, and charge it for 1~2 hours with the charger every six months. The battery pack and charger should be stored in a clean, dry and ventilated place. It should avoid contact with corrosive substances and stay away from fire and heat sources.

2. Transportation

Battery pack and charger should be packaged for transportation, in the process of transportation, prevent severe vibration, impact or extrusion, and prevent the sun and rain. It can be transported by car, train, ship, plane and other means of transportation.

3. Maintenance

- a. When the battery pack is stored, the battery should be 40%~ 70% charged.
- b. When the battery pack is not used for a long time, it is recommended to replenish the battery every six months or so, and the charger can be used for 1~2h.
- c. During maintenance, do not reload or unload the battery in the battery pack, otherwise the performance of the battery will be reduced.
- d. Do not replace any battery in the battery pack without authorization, and do not dissect the battery.

After-sales service card



User Name: _____

Tel: _____

Address: _____

Email: _____

Fault reason: _____

Solution: _____

Inspection Date : _____

Maintenance: _____

This service card must be presented together with the invoice to be valid. Please fill in the required information on the service card to ensure warranty compliance. If there is any alteration, this card will be invalid.