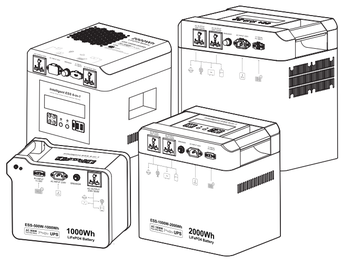
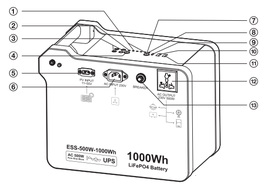
ESS All-in-One Portable Power Station

User Manual



Thank you for purchasing ESS All-in-One Portable Power Station. Before operating your new device, please read this user's manual carefully. This manual will inform you the specifications and proper operation procedures, safety warnings and other useful information. Please keep this manual for easy reference.

Model No.:
ESS-500W-1000Wh

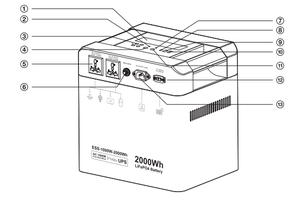


①	Battery Level Indicator	⑧	DC Work Indicator
②	AC Work Indicator	⑨	USB-C Output
③	DC Output x 4	⑩	USB-A Output 1
④	AC Power Button	⑪	USB-A Output 2
⑤	PV Input	⑫	AC Output
⑥	AC Input	⑬	Breaker
⑦	DC Power Button		

Specifications :

Capacity	3.2V / 314Ah (1004.8Wh)
Battery Type	LiFePO4 Battery
AC Input	90V-280V , 45-65Hz, 500W Max.
PV Input	11V-55V, 10A Max, 300W Max.
AC Output	230V, 50Hz, 500W Max.
DC Output x4	12V⎓4A, Total 48W Max.
USB-C Output	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 2	5V⎓3A
Weight	10.5kg
Size	304 x 180 x 245mm
Discharging Temperature	-10℃ to 50℃ (Optimum 20℃ to 30℃)
Charging /Storage Temperature	0℃ to 45℃ (Optimum 20℃ to 30℃)

Model No.:
ESS-1000W-2000Wh

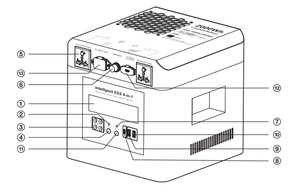


①	LCD Display	⑧	USB-C Output
②	AC Work Indicator	⑨	USB-A Output 1
③	DC Output x 4	⑩	USB-A Output 2
④	AC Power Button	⑪	DC Power Button
⑤	AC Output x 2	⑫	PV Input
⑥	Breaker	⑬	AC Input
⑦	DC Work Indicator		

Specifications :

Capacity	3.2V / 628Ah (2009.6Wh)
Battery Type	LiFePO4 Battery
AC Input	90V-280V, 45-65Hz, 800W Max.
PV Input	11V-55V, 15A Max, 550W Max.
AC Output x2	230V, 50Hz, Total 1000W Max.
DC Output x4	12V⎓4A, Total 48W Max.
USB-C Output	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 2	15W Max. (5V⎓3A)
Weight	19.5kg
Size	304 x 240 x 304mm
Discharging Temperature	-10℃ to 50℃ (Optimum 20℃ to 30℃)
Charging /Storage Temperature	0℃ to 45℃ (Optimum 20℃ to 30℃)

Model No.:
ESS-1000W-2000Wh-B

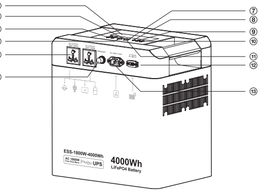


①	LCD Display	⑧	USB-C Output
②	AC Work Indicator	⑨	USB-A Output 1
③	DC Output x 4	⑩	USB-A Output 2
④	AC Power Button	⑪	DC Power Button
⑤	AC Output x 2	⑫	PV Input
⑥	Breaker	⑬	AC Input
⑦	DC Work Indicator		

Specifications :

Capacity	3.2V / 628Ah (2009.6Wh)
Battery Type	LiFePO4 Battery
AC Input	90V-280V, 45-65Hz, 800W Max.
PV Input	11V-55V, 15A Max, 550W Max.
AC Output x2	230V, 50Hz, Total 1000W Max.
DC Output x4	12V⎓4A, Total 48W Max.
USB-C Output	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 2	15W Max. (5V⎓3A)
Weight	18.5kg
Size	260 x 267 x 260mm
Discharging Temperature	-10℃ to 50℃ (Optimum 20℃ to 30℃)
Charging /Storage Temperature	0℃ to 45℃ (Optimum 20℃ to 30℃)

Model No.:
ESS-1800W-4000Wh



①	LCD Display	⑧	USB-C Output
②	AC Work Indicator	⑨	USB-A Output 1
③	DC Output x 4	⑩	USB-A Output 2
④	AC Power Button	⑪	DC Power Button
⑤	AC Output x 2	⑫	PV Input
⑥	Breaker	⑬	AC Input
⑦	DC Work Indicator		

Specifications :

Capacity	3.2V / 1256Ah (4019.2Wh)
Battery Type	LiFePO4 Battery
AC Input	90V-280V, 45-65Hz, 1500W Max,
PV Input	18-110V, 15A Max, (1200W Max.)
AC Output x2	230V, 50Hz, Total 1800W Max,
DC Output x4	12V⎓10A, Total 120W Max,
USB-C Output	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A Output 2	15W Max. (5V⎓3A)
Weight	32kg
Size	336 x 239 x 355mm
Discharging Temperature	-10℃ to 50℃ (Optimum 20℃ to 30℃)
Charging /Storage Temperature	0℃ to 45℃ (Optimum 20℃ to 30℃)

Charge the Power Station:

During charging, the real-time input power and battery level will show on the LCD Display:

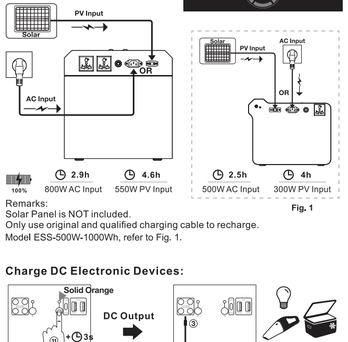
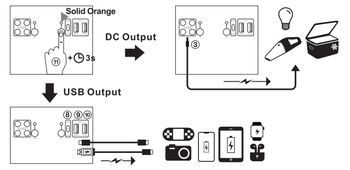


Fig. 1

Remarks:
Solar Panel is NOT included.
Only use original and qualified charging cable to recharge.
Model ESS-500W-1000Wh, refer to Fig. 1.

Charge DC Electronic Devices:



Real-time output power is displayed on the LCD Display.

Caution:
DC Cable or USB Cable is not included.
Only use qualified cable to perform the charging.
Press and hold on DC Power Button for 3 seconds to turn off DC Output after use every time.

Supply AC Power for Electronics:

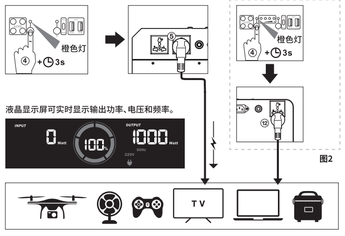


Fig. 2

Real-time output power, voltage, and frequency are displayed on the LCD display.

Remarks:
Model ESS-500W-1000Wh, refer to Fig. 2.

Caution:
Do not operate the unit above the specified power rates.
Press and hold on AC Power Button for 3 seconds to turn off AC Output after use every time.

**Note:*
If the AC / DC Work Indicator is flashing, the unit is in an error state. Please stop using it immediately, and check the Error Code on the LCD Display.

Error Code:

In case of overload or other emergencies, ESS-1000W-2000Wh safety protection system will switch into protection mode automatically with displaying the corresponding code. In such case, please follow the prompts:

CODE	CAUSE	ACTION
001	Low battery voltage	Recharge the unit
002	Battery over voltage	Stop Charging
003	Low temperature protection	Move into the circumstance over -10℃
004	Battery overheat protection	Stop use and cool down for 30 minutes
005	DC output over load	Remove the load of DC Outlet
010	DC output overheating	Stop using DC power and cool down for 30 minutes
018	Mains undervoltage	Stop AC input until voltage returns to normal
019	Mains over voltage	Stop AC input until voltage returns to normal
020	PV over voltage	Stop charging until the PV voltage is in the range of 11-55V
021	PV over current	Stop PV charging
031	Inverter fault	Stop AC input and output
041	PV overheat protection	Stop PV charging and cool down for 30 minutes
049	PV undervoltage	Stop charging until the PV voltage is in the range of 11-55V
052	PV fault	Stop PV charging
055	AC output overload	Remove the load of AC Outlet
056	AC input over current	Stop AC input

Turn On / Off the Power Station:

Press AC / DC Power Button to turn on the unit and check the battery level. Press and hold on AC / DC Power Button for 3 seconds to turn on the AC / DC Output.
After use, please press and hold the AC / DC Power Button for 3 seconds to turn off the corresponding output power, or turn off the unit completely.

***Note:*
If the AC / DC Work Indicator is On, the unit will consume a small amount of power and lose battery capacity even without any load connected, need to turn of manually if no operation.

Toxic and Harmful Substances:

Composition and amount of toxic and harmful substances in Power Station					
Pb	Hg	Cd	Cr(Vi)	PBB	PBDE
O	O	O	O	O	O

O: Indicate all homogeneous materials' hazardous substances content are below the MCV limit specified in the Standard 2002/95/EC(RoHs).

All Parts In the Box:

- Portable Power Station x 1 pc
- AC Charger x 1 pc
- User Manual x 1 pc
- LED Light x 2 pcs
- PV Charging Cable x 1 pc

⚠ Warnings:

To avoid fire or any other dangerous to persons, please follow these instructions and pay attention to the instructions of any electrical devices you intend to power for.

- Check the unit prior to every use. Do not use the unit if it is damaged or broken.
- Do not charge or use the unit in a bathroom or in an area exposed to rain or moisture.
- Do not touch the unit or the plug-in points if your hands are wet.
- Do not insert any metallic objects to any socket of the unit.
- Carefully read the instructions for the electric devices that you intend to power for.
- Do not use any inappropriate power cords.
- Do not use the unit with damaged or broken power cords.
- Only use the output socket to power external devices. Never connect the output to main power under any circumstances.
- Only use the original or certified adaptor and cables to recharge the unit, do not operate the unit above the specified input voltage.
- Do not use accessories for other usage.
- Unplug the power cord from the socket if thunderstorm weather.
- Conduct visual inspection of this product to check for the presence of any abnormalities (such as swelling of the main unit, cracks, any damaged parts etc.) before use. Do not use this product in case you notice any.
- Do not use this product in explosive atmospheres (e.g. in the presence of flammable liquids, gases or dust). And keep it away from fire, heat or water.
- Do not operate the unit above the specified power rates.
- Do not move the unit if it is recharging or in use.
- Do not put fingers or hands into any socket of the unit.
- Stop using the unit immediately if the unit was rust, peculiar odors, overheating or other abnormal circumstances.
- Turn off the unit immediately if it has accidentally fallen, was dropped or was exposed to vibrations.
- Make sure that the device you are connecting is switched off before you connect it.

⚠ Cautions:

Instructions to avoid risk of fire or injury to persons.

- Do not disassemble, repair or modify the unit.
- Do not place the unit close to or in fire or expose it to heat.
- Never smoke or allow a spark or flame in vicinity of unit.
- It's not waterproof, do not expose to liquids.
- Use and store the unit only in a clean and dry environment, never use or store in dusty and wet environment.
- Keep out of direct sunlight.
- Avoid dropping.
- Keep the unit away from children. Do not let children use the power supply unit.
- Keep the unit away from pets.
- Fully discharge and recharge the unit every 3 months to prolong its battery life.
- DON'T throw, or apply excessive force on this product.
- DON'T keep the unit any location where the temperature may exceed 45˚C. Always recharge it at locations with an ambient temperature falling within the range of 0˚C and 45˚C.
- Under extreme conditions, battery leakage may occur.
- The batteries used with this product contain chemicals that are harmful to the environment.
- To preserve our environment, please dispose used batteries according to your local laws or regulations. Do not dispose batteries with normal household waste.
- For more information, please contact the local authority or your retailer where you purchased the product.

Warranty Information:

We offer a limited warranty for this product against any defects in material and workmanship for a period of 1 year from the date of purchase by the end user/consumer. The conditions of the warranty are as follows:

1. The warranty is only valid upon presentation of the original receipt (from dealer/retailer) by the original purchaser with the product to be repaired or replaced.
2. The warranty is void if the serial number, date of purchase and label are removed.
3. The warranty does not cover damage or product failure resulting from normal wear and tear, physical abuse, improper installation, misuse, modification or repairs by unauthorized third parties.
4. We do not assume responsibility for any loss or damage incurred during shipment or as a result of a force majeure.
5. We are not liable for any incidental or consequential damages arising from the use or misuse of this product.
6. All warranty claims are limited to repair or replacement of the defective product and at the sole discretion of us.
7. If we repair or replace the product, the product will be covered for the remaining time of the original warranty period. Repair or replacement may involve the use of reconditioned units which are equivalent in function. Replaced part or product becomes the property of us.
8. Consumable components such as batteries are not covered by the warranty.

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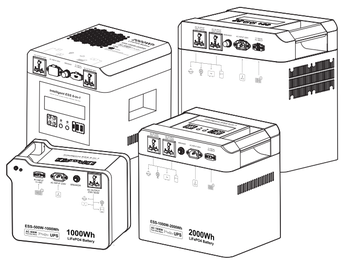
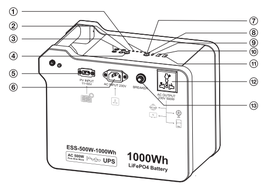
便携式储能电源

产品说明书



感谢您购买便携式储能电源。在使用本产品之前，请务必先仔细阅读本使用说明书。请务必妥善保管好本说明书，以便日后能随时查阅。请在充分理解内容的基础上，正确使用本产品。

产品型号：
ESS-500W-1000Wh

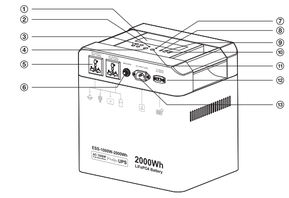


①	电量指示灯	⑧	DC 工作指示灯
②	AC 工作指示灯	⑨	USB-C 输出
③	DC 输出 x 4	⑩	USB-A 输出 1
④	AC 电源开关	⑪	USB-A 输出 2
⑤	光伏输入	⑫	AC 输出
⑥	AC 输入	⑬	断路器
⑦	DC 电源开关		

规格参数:

电池容量	3.2V / 314Ah (1004.8Wh)
电池类型	磷酸铁锂电池
AC 输入	90V-280V, 45-65Hz, 500W Max.
光伏输入	11V-55V, 10A Max. (300W Max.)
AC 输出	230V, 50Hz, 500W Max.
DC 输出 x 4	12V⎓4A, 总功率 48W Max.
USB-C 输出	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 2	5V⎓3A
产品重量	10.5kg
产品尺寸	304 x 180 x 245mm
放电温度	-10℃ ~ 50℃ (最佳 20℃ ~ 30℃)
充电温度 / 储存温度	0℃ ~ 45℃ (最佳 20℃ ~ 30℃)

产品型号：
ESS-1000W-2000Wh

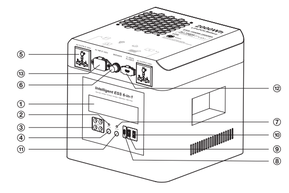


①	LCD显示屏	⑧	USB-C 输出
②	AC 工作指示灯	⑨	USB-A 输出1
③	DC 输出 x 4	⑩	USB-A 输出2
④	AC 电源开关	⑪	DC 电源开关
⑤	AC 输出 x 2	⑫	光伏输入
⑥	断路器	⑬	AC 输入
⑦	DC 工作指示灯		

规格参数:

电池容量	3.2V / 628Ah (2009.6Wh)
电池类型	磷酸铁锂电池
AC 输入	90V-280V, 45-65Hz, 800W Max.
光伏输入	11V-55V, 15A Max. (550W Max.)
AC 输出 x 2	230V, 50Hz, 总功率 1000W Max.
DC 输出 x 4	12V⎓4A, 总功率 48W Max.
USB-C 输出	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 2	5V⎓3A
产品重量	19.5kg
产品尺寸	304 x 240 x 304mm
放电温度	-10℃ ~ 50℃ (最佳 20℃ ~ 30℃)
充电温度 / 储存温度	0℃ ~ 45℃ (最佳 20℃ ~ 30℃)

产品型号：
ESS-1000W-2000Wh-B

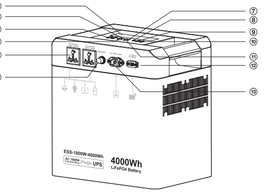


①	LCD显示屏	⑧	USB-C 输出
②	AC 工作指示灯	⑨	USB-A 输出1
③	DC 输出 x 4	⑩	USB-A 输出2
④	AC 电源开关	⑪	DC 电源开关
⑤	AC 输出 x 2	⑫	光伏输入
⑥	断路器	⑬	AC 输入
⑦	DC 工作指示灯		

规格参数:

电池容量	3.2V / 628Ah (2009.6Wh)
电池类型	磷酸铁锂电池
AC 输入	90V-280V, 45-65Hz, 800W Max.
光伏输入	11V-55V, 15A Max, 550W Max.
AC 输出 x 2	230V, 50Hz, 总功率 1000W Max.
DC 输出 x 4	12V⎓4A, 总功率 48W Max.
USB-C 输出	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 2	5V⎓3A
产品重量	19.5kg
产品尺寸	304 x 240 x 304mm
放电温度	-10℃ ~ 50℃ (最佳 20℃ ~ 30℃)
充电温度 / 储存温度	0℃ ~ 45℃ (最佳 20℃ ~ 30℃)

产品型号：
ESS-1800W-4000Wh



①	LCD显示屏	⑧	USB-C 输出
②	AC 工作指示灯	⑨	USB-A 输出1
③	DC 输出 x 4	⑩	USB-A 输出2
④	AC 电源开关	⑪	DC 电源开关
⑤	AC 输出 x 2	⑫	光伏输入
⑥	断路器	⑬	AC 输入
⑦	DC 工作指示灯		

规格参数:

电池容量	3.2V / 1256Ah (4019.2Wh)
电池类型	磷酸铁锂电池
AC 输入	90V-280V, 45-65Hz, 1500W Max.
光伏输入	18V-110V, 15A Max. (1200W Max.)
AC 输出 x 2	230V, 50Hz, 总功率 1800W Max.
DC 输出 x 4	12V⎓10A, 总功率 120W Max.
USB-C 输出	PD 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 1	QC 20W Max. (5V⎓3A, 9V⎓2A, 12V⎓1.67A)
USB-A 输出 2	5V⎓3A
产品重量	32kg
产品尺寸	336 x 239 x 355mm
放电温度	-10℃ ~ 50℃ (最佳 20℃ ~ 30℃)
充电温度 / 储存温度	0℃ ~ 45℃ (最佳 20℃ ~ 30℃)

为移动电源充电：

充电过程中，液晶显示屏会实时显示输入功率以及剩余电量。

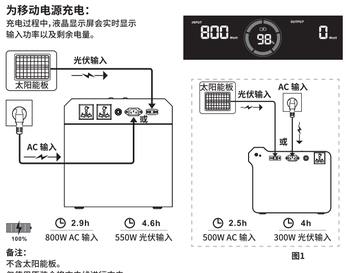
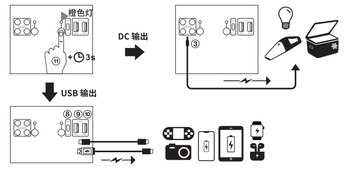


图1

备注：
不含太阳能板。
仅使用原装合格充电线进行充电。
型号：ESS-500W-1000Wh，详见图 1。

为电子设备充电：



液晶显示屏可显示实时输出功率。

注意事项：
不含直流电源线、USB 数据线。
仅可使用合格线缆进行充电。
每次使用完毕后，长按直流电源按键 3 秒，关闭直流输出。

为电器设备提供AC供电：

液晶显示屏可实时显示输出功率、电压和频率。

图2

备注：
型号：ESS-500W-1000Wh，详见图 2。

警告：
请勿在超出额定功率的状态下使用本设备。
每次使用完毕后，长按AC 电源开关 3 秒，AC 输出。

**注意：
若AC / DC 工作指示灯闪烁，代表设备处于故障状态。
请立即停止使用，并查看液晶显示屏上的错误代码。

错误代码说明：

如发生过载或其他紧急情况，ESS-1000W-2000Wh 的安全保护系统会自动进入保护模式，并显示对应的故障代码。遇到此类情况，请按以下提示处理：

代码	故障原因	处理方法
001	电池电压过低	为本设备重新充电
002	电池过压	停止充电
003	低温保护	移至环境温度高于 -10℃ 的场所
004	电池过热保护	停止使用，冷却 30 分钟
005	直流输出过载	移除直流输出接口的负载设备
010	直流输出过热	停止使用直流供电，冷却 30 分钟
018	市电欠压	暂停交流输入，直至电压恢复正常
019	市电过压	暂停交流输入，直至电压恢复正常
020	光伏输入过压	停止充电，直至光伏电压处于 11-55 伏区间
021	光伏输入过流	停止光伏充电
031	逆变器故障	关闭交流输入与交流输出
041	光伏过热保护	停止光伏充电，冷却 30 分钟
049	光伏输入欠压	停止充电，直至光伏电压处于 11-55 伏区间
052	光伏故障	停止光伏充电
055	交流输出过载	移除交流输出接口的负载设备
056	交流输入过流	关闭交流输入

产品开机 / 关机操作：

按下 AC / DC 电源开关，开启设备并查看剩余电量。
长按 AC / DC 电源开关 3 秒，开启 AC / DC 输出。
使用完毕后，长按 AC / DC 电源开关 3 秒，关闭对应的输出电源，或彻底关闭整机。

**注意：
若 AC / DC 工作指示灯处于亮起状态，即便未连接任何负载，设备也会产生少量耗电，造成电量损耗。如不使用，请手动关闭。

产品中有毒有害物质或元素的名称及含量

有毒有害物质或元素					
Pb	Hg	Cd	Cr(Vi)	PBB	PBDE
O	O	O	O	O	O

O: 表示该有害物质在该部件所有均质材料中的含量均在2002/95/E(RoHs)标准规定的限量要求以下。

包装清单：

- 便携式储能电源 x 1
- AC 充电器 x 1
- 光伏充电线 x 1
- LED 照明灯 x 2
- 用户手册 x 1

⚠ 警告：

为避免发生火灾或造成人身伤害，请遵守以下使用说明，同时查阅待供电电器设备的使用说明。

- 每次使用前检查设备，若设备有破损、损坏，请勿使用。
- 请勿在浴室、淋雨或潮湿环境中为本设备充电或使用本设备。
- 手部潮湿时，切勿触碰设备及接口。
- 请勿将任何金属物件插入本设备的插孔内。
- 仔细阅读待供电电器设备的使用说明。
- 请勿使用不合规格的电源线。
- 请勿搭配破损的电源线使用本设备。
- 仅可通过输出接口为外接设备供电，严禁将输出端接入市电。
- 仅使用原装或合规认证的适配器及线材为本设备充电，请勿在超出额定输入电压的工况下使用设备。
- 配件不可挪作其他用途。
- 雷雨天时，请将电源线从插座上拔下。
- 使用前目视检查产品有无异常（如主机鼓包、开裂、零部件损坏等），如有异常请勿使用。
- 请勿在易燃易爆环境（如存在易燃液体、气体、粉尘的场所）使用本产品，并远离火源、热源与水源。
- 请勿在超出额定功率的工况下使用本设备。
- 设备充电或运行过程中，请勿移动设备。
- 请勿将手指或手伸入设备的插孔内。
- 若设备出现生锈、异味、过热或其他异常情况，请立即停止使用。
- 若设备不慎跌落、磕碰或受到震动，请立刻关闭设备。
- 连接外接设备前，请确保外接设备处于关机状态。

⚠ 注意事项：

避免发生火灾或人身伤害的使用说明。

- 请勿拆解、维修或改装本设备。
- 请勿将设备靠近或置于明火之中，也不要使其受热。
- 严禁在设备附近吸烟，或出现火花、明火。
- 本产品不防水，请勿接触液体。
- 仅可在洁净干燥的环境中使用及存放，不可在多尘、潮湿环境中使用或存放。
- 避免阳光直射。
- 防止设备跌落。
- 请将设备放置于儿童接触不到的地方，切勿让儿童使用本电源设备。
- 远离宠物。
- 每 3 个月进行一次完整放电和充电，以延长电池寿命。
- 请勿抛掷本产品，或对其施加外力重压。
- 不要存放在温度可能超过 45˚C的场所；充电环境温度需保持在 0˚C~45˚C之间。
- 在极端环境条件下，电池可能发生漏液。
- 本产品内置电池含有对环境有害的化学物质。
- 为保护环境，请遵照当地法规处理废旧电池，不可随生活垃圾丢弃。
- 如需更多信息，请咨询当地主管部门或产品购买经销商。

保修卡

本产品为客户提供自购买之日起12个月内的保修服务

保障条件： 需要保修服务时，请出示本保修卡，并请详尽填写相关内容。本公司向产品用户提供从产品购买之日起12个月的保质期。

保修范围：
1、在正常使用的状态下出现产品质量问题。
2、如因操作失误造成对产品的损害，不在保修范围。
3、自行拆机后，不予保修。
4、标贴撕毁的机器，不予保修。

不在保修范围内的产品，我司可提供维修服务，维修费用需由客户承担。

产品型号		出厂编号	
购买日期		维修日期	
客户姓名		联系电话	
客户地址 销售单位			
产品异常现象描述			

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