

After-sales Service Guarantee Card

Product model	
Date of purchase	
Buying merchant	
Customer address	
Contact number	
Brief introduction of Fault Problems	

YiLiNK Power Station M2000
User Manual



Power Your Life

Notice:

- ※ Please read the product manual carefully before use, If there are any adjustments to the product specifications, no separate notice will be given.
- ※ Long-term storage,(more than 3 month),The battery should be kept at no less than 50% charge .please store in a cool and dry place.
- ※ When the power station shuts down automatically or cannot be charged, it may be due to the battery triggering high-temperature or low-temperature protection Wait for the temperature to return to normal, and the protection will be automatically released.
- ※ The product utilizes an alloy casing for heat dissipation. It is normal for the casing to become warm during use.
- ※ The product is equipped with low-temperature preheating technology, allowing for low-temperature charging and discharging. During low-temperature use it is best to place the product in a dedicated insulated storage bag. To maintain the temperature a small amount of battery power will be consumed. When discharging at low temperatures the device needs to be powered on, and the system will automatically preheat for several minutes to tens of minutes to reach the appropriate temperature before normal charging and discharging can be achieved.

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1.List of Accessories

Serial Number	Heading	List Description.
1	Portable Power Station	M2000
2	AC charging cable	Use the mains power to charge the product.
3	Car charging cable	To recharge the powerstation by car (Connect the car's cigarette lighter socket to the XT60 interface of the power station by the car charging cable)
4	Solar charging MC4 port to XT60 Port	Convert the MC4 Port to XT60 port for charging the product.
5	User Manual	Product Introduction, Operating Instructions, and Warranty.
*6	Storage Bag (Purchase additionally)	Storage and low-temperature insulation functionality
*7	Car battery rechargeCable (Purchase additionally)	Recharge the car battery to start the car.
*8	Car fast charging (Purchase additionally)	Charge the powerstation fastly in car while driving

2.Product Introduction

This product is a multifunctional portable power source composed of a semi-solid-state lithium-ion battery and a gallium nitride inverter. It features various interfaces such as DC, AC, and USB, and is primarily used for outdoor power supply (camping, self-driving tours, outdoor operations/office work, scientific expeditions, and rescue missions) as well as household emergency power. It can be charged in various ways (solar charging, car charging, AC charging, and fuel-powered generator charging). The product is equipped with a UL-certified automotive-grade semi-solid-state lithium-ion battery, a Battery Management System (BMS), a charging management system, a power consumption management system, a DC module, and an AC inverter module.

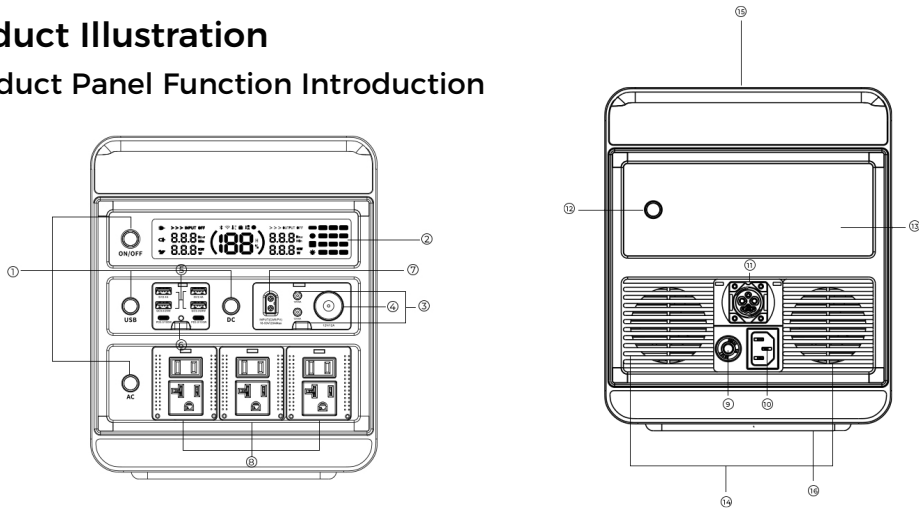
The product is characterized by its small size, light weight, support for fast charging, and online functionality. Through professional design and validation, it has obtained international certifications such as CE, FCC, RoHS, PSE, UN38.3, ensuring its safety and reliability.

2.1 Main Functions and Features of the Product

- ◆ AC100V~240V/50-60Hz Pure Sine Wave Output(Set according to the electrical standards of each country or region.)
- ◆ Three Charging Methods (AC Charging, Solar Charging, Car Charging)
- ◆ 12V 12A Car Cigarette Lighter Output
- ◆ 12V6A*2 DC5521 output port
- ◆ USB-C*2 PD3.0 port (45-100W, some models support bidirectional use. Please refer to the purchased model for details.)
- ◆ USB-A*2 QC4.0 Smart Identification Output
- ◆ USB-A*2 2.4A Smart Identification Output
- ◆ Car Emergency Flexible Start
- ◆ 92%-96% High Conversion Efficiency (Reduced Heat Generation, indirectly increases available capacity)
- ◆ LED High-Brightness Display Screen (Real-Time Power, Battery Level, Remaining Time, etc. Indicators)
- ◆ Array LED Lighting (Four Modes: Low Brightness, High Brightness, SOS, Fast Flash)
- ◆ The BMS Battery Management System is equipped with a multi-level protection system for over-voltage, under-voltage high and low temperature, over-current, and short circuit.
- ◆ Each interface is equipped with a protective cover, which enhances the protection level, reduces the erosion of dust sand, and moisture, making it safer and more durable.
- ◆ Aluminum Alloy Shell in Six Series, Sandblasted and Anodized

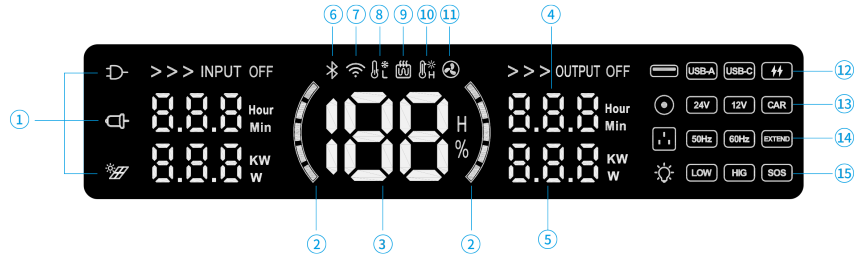
3.Product Illustration

3.1Product Panel Function Introduction



Serial numbe	Function Description			
1	Power On/Off Buttons for Each Function	9	Overload Protector	
2	Display Screen	10	AC Charging Input Port	
3	DC5521 12V Output port	11	Parallel/Serial Port	
4	Cigarette Lighter 12V Output Port	12	LED Power Button	
5	USB-A 2.4A/QC3.0 60W	13	LED Light	
6	PD3.0 100W Output port	14	Cooling Fan	
7	XT60 Input port(Solar/Car Input Port)	15	Handle	
8	AC Output Port(Varies by Country/Region Refer to the Actual Product)	16	Footpad	

3.2 Introduction of the LED Screen Display



Serial numbe	Heading	Function
1	Charging Indicator	From top to bottom, the icons represent AC charging, cigarette lighter charging, and photovoltaic charging
2	Battery Icon	Display battery level in five bars.
3	Battery Percentage	Display battery level as a percentage power 0% to 100%.
4	Remaining Time Indication	Display the remaining discharge time, with units "Hour" or "Min" indicating how many hours and minutes are remaining.
5	Discharge Power Indication	Display discharge power, with units "KW" or "W" indicating how many kilowatts and how many watts are being discharged.
6	Remaining time indication	Display the remaining time to fully charge,with units "Hour" or "Min" indicating how many hours and minutes are remaining.
7	Charging Power Indication	Display the charging power,and the corresponding unit KW or W represents how many kilowatts and how many watts to charge
8	Bluetooth Indication	This icon indicates that Bluetooth is turned on.
9	WIFI Indication	This icon indicates that WiFi is turned on
10	Low Temperature Indication	This icon indicates that the temperature is low.
11	Preheat Indication	This icon indicates that preheating is turned on.
12	High Temperature Indication	This icon indicates the temperature is high.
13	Fan	This icon indicates that the fan is turned on for cooling.
14	USB indication	When the corresponding icon is lit, it means the corresponding USB-A port or USB-C port is enabled.
15	DC indication	When the corresponding icon is lit, it means the corresponding 24V output or 12V output or cigarette lighter output is enabled.
16	AC indication	When the icon is illuminated, it indicates that the AC is turned on. "50Hz" or "60Hz" indicates the current frequency Double-clicking the AC button can switch the frequency. If "EXTEND" is illuminated, it indicates that the device is currently in parallel output mode.
17	LED indication	When the icon is illuminated, it indicates that the AC is turned on "LOW" stands for low brightness, "HIG" for high brightness, and "SOS" for rescue mode.

4.General Product Specifications (YiLiNK reserves the right to update and interpret product specifications.)

Item	Specs.	Specs.
Battery	Battery type	Semi-Solid-State Lithium-ion Battery
	Battery voltage	32.4V
	Battery Ampere-Hour (Ah)	62Ah
	Battery Capacity	2008.8Wh
	Cycle life	≥1000 times
	BMS Protection	Over-voltage, under-voltage, high/low-temperature,three-level over-current short-circuit protection.
AC Output	Output Voltage	100-240V(Factory Settings According to Various Countries and Regions)
	Output Frequency	50-60Hz(Manual Switching, Fixed in Some Countries/Regions)
	Output Waveform	Pure Sine Wave
	Rated Power	2000W
DC Output	DC5521 Interface	DC12V 6A Max
	Car Charging Port	DC12V 12A
USB Output	USB-A1、USB-A2	5V2.4A Smart Identification
	USB-A3、USB-A4	QC2.0/3.0/QC4.0 5V/9V/12V/15V/20V 60W Max(20V 3A)
	USB-C1、USB-C2	PD3.0 5V/9V/12V/15V/20V 100W Max(20V 5A)

LED Lighting	First Gear	5W (Max) , Cool light, warm light switchable.
	Second Gear	10W (Max) , Cool light, warm light switchable.
	Third Gear	SOS
	Fourth Gear	Strobe (Alarm Flashing)
Charging	AC charging	100-240V , 1600W Max(According to factory settings in various countries and regions)
	Car Charger Charging	12.5-15V/8A 100W Max
	Solar Charging	18-48V/20A 1000W Max
Product weight	Net Weight	About17.5kg
	Gross Weight	20.2kg
Product Volume	M2000 Power Station	L355*W216*H258mm
	Package Volume	479*339*382mm
Operating Temperature	Charging Temperature	0-40℃ , Low-temperature version: -10℃ with dedicated storage bag, supports a minimum of -30℃.
	Discharging Temperature	-10-45℃ , Low-temperature version: -20℃ with dedicated storage bag, supports a minimum of -30℃.

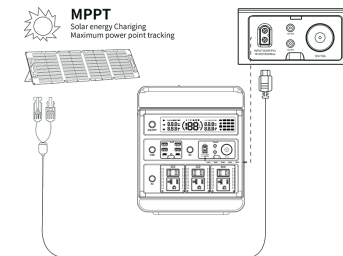
5.Product Protection Specification

Serial Number	Item	Parameter
1	Battery Overvoltage Protection	37.8V±0.1V
2	Battery Under-voltage Protection	27V±0.3V
3	Charging Low TemperatureProtection	Charging at 0℃ (Low-temperature version: -30℃)
4	Discharging Low Temperature Protection	Discharge at -10℃ (Low-temperature version: -30℃)
5	Charging High Temperature Protection	Charging at 45℃
6	Discharging High Temperature Protection	Discharging at 60℃
7	Battery Over current Protection	110A,2S
8	Battery Short Circuit Protection	<1mS
9	AC Over power Protection	3000W,2S
10	AC Short Circuit Protection	<50mS
11	USB-A Over current Protection	A1、A2: 2.5±0.2A, A3、A4: 3.5A±0.2A
12	USB-C Over current Protection	5-15V: 3.5A±0.2A, 20V: 5.5A±0.2A

6.User Manual

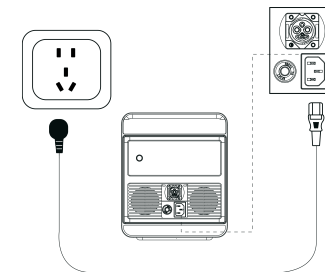
6.1Solar Charging

Put the extended solar panel plug into the marketed with"input" XT60 interface.The screen displays a blinking "solar panel icon".The battery icon is scrolling,Simultaneously display remaining charging time.Solar panels' power is greatly affected by sunlight.The generated power fluctuates, causing the remaining time to change dynamically, which is considered normal.



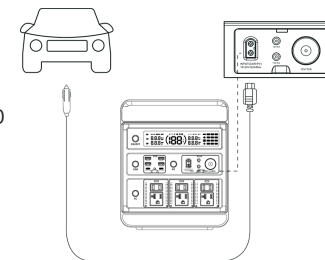
6.2 AC Fast Charge

STEP1.Plug the AC power cord into the AC power outlet, Plug the other end of the AC power cord into the interface marked with "INPUT",the screen displays a blinking "AC plug icon",the battery icon is scrolling,simultaneously display the remaining charging time.The system will automatically detect the input power when it is just charged,the remaining time will dynamically change, which is considered normal.



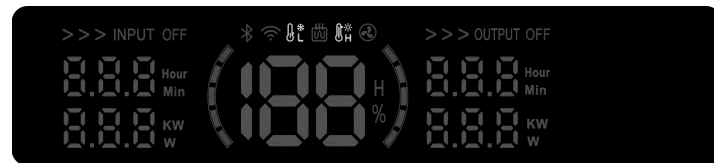
6.3 Car charging

STEP1.Start the car.STEP2.Insert one end of the accessory "Car Charging Cable Male Plug" into the car's cigarette lighter socket.STEP3.The other end XT60 male plug into the power XT60 female socket.the screen displays "CAR Charging Icon">flashing, the battery icon is scrolling, simultaneously displaying the remaining charging time.



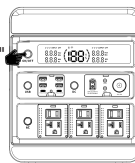
6.4 Charging Standby Status

Charging has strict temperature protection function,if the battery temperature is outside the safe range (0~45℃),the product enters the charging standby stage, indicating that charging is initiated.Once the internal temperature of the product returns to the normal range, charging will commence automatically.(The low-temperature version has a built-in battery heating function,low-temperature charging will trigger internal battery heating,charging will start automatically once the temperature returns to normal.)



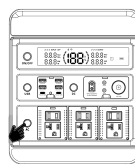
6.5 Power On/Off

Long press the button labeled "On/Off" on the left side of the front panel display until you hear a beep. The display screen will light up, indicating that the system is turning on. To turn off the system, long press the "On/Off" button again until you hear a beep. The screen will go dark, indicating that the system is shutting down.



6.6 AC Output

Long press the AC button in the AC area for about 1 second,AC output will be activated.The discharge icon on the display screen will show the AC icon, the screen displays the current frequency,switch to the power display interface after 2 seconds.In this case, long-press the AC button for about 1 second, this will turn off the AC output.If the button is pressed for more than 3 seconds during the shutdown process, it will trigger the entire system to shut down and enter sleep mode.

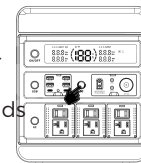


6.7 AC output frequency Switching

After turning on the AC output function,press the AC switch three times continuously that could switch the AC operating frequency.The screen displays the corresponding frequency,switch to the power display interface after 2 seconds."F50" output frequency switching,represents 50Hz,"F60"represents 60Hz,please choose according to the local power grid or the requirements of the electrical appliance.(Fixed frequency in some countries/regions),As follows:

6.8 DC Switch on/off

Long press the DC button for about 1 second to turn it on,this will activate the DC5521 and cigarette lighter outputs,the display screen will show the 12V and CAR icons.Long press the DC button for about 1 second again,this will deactivate the DC5521 and cigarette lighter outputs.If the button is pressed for more than 3 seconds during the shutdown process, it will trigger the entire system to shut down and enter sleep mode.



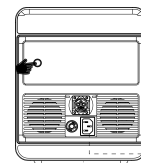
6.9 USB Switch on/off

When the system is in the powered-on state, long press the USB button for about 1 second until you hear a beep. This will activate the USB-A and USB-C outputs. The display screen will show the USB-A and USB-C icons.Long press the USB button again for about 1 second, this will deactivate the USB-A and USB-C outputs.



6.10 LED Lighting On/Off / Switching Lighting Modes

In the system's powered-on state, long press the LED button in the rear LED light area for about 1 second until you hear a beep,it will activate the lighting and enter low-brightness mode. The display screen will show the "LIGHT" icon.Clicking the button successively will switch to high-brightness mode, SOS mode, fast flash mode, etc,double-clicking the LED button will switch the light color between white, warm, and warm white. When the LIGHT is active, long-pressing the LED button for about 1 second will turn off the LIGHT illumination.



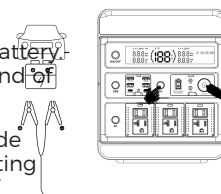
6.11 "Car Start" Function

Car Starting Steps:

① Using the car jump starter cable, connect the red alligator clip to the positive terminal of the car battery. Connect the black alligator clip to the negative terminal of the car battery, and plug the car charger end of the car jump starter cable into the cigarette lighter socket of this product.

② Turn on/off the product master switch,double-click the DC button, and the DC icon on the right side of the screen will light up.The car icon is flashing, indicating that the product is charging the car's starting battery. Charging will last for 5-30 minutes (the time depends on different car models and the level of discharge).

If the car icon on the display is steadily lit (not blinking), it indicates that the charging is complete, and you can disconnect the car charging cable.Then attempt to start the car.

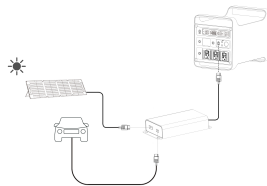


*This product is not a professional automotive starting power source. The principle of the car starting function is to charge the original car battery. Then use the original car battery to start the vehicle. In some cases, the original car battery may fail, or its charge capacity may be insufficient. Additionally, if the supplementary charging level of the car is insufficient, it can lead to a failed start.

6.12 Car fast charging

By using the dedicated intelligent fast charging module for driving (configured separately), it can be directly connected to the 12-24V car battery. The dedicated intelligent fast charging module for driving is equipped with a built-in vibration detection unit. When vibrations are detected, it determines that the car engine is in operation, indicating that the generator is in an active state and capable of generating power. The dedicated intelligent fast charging module for driving will boost the car battery voltage to a range of 33V-40V, providing a power output of 300W-500W. Through the XT60 connector, this enables the M2000 to receive a power supply of 300-500W via the driving fast charging function. The driving fast charging power is typically 3-5 times higher than that of a regular car charging cable.

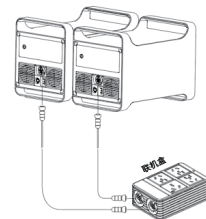
Simultaneously, the dedicated intelligent fast charging module for driving also supports one-way solar input, up to a maximum of 300W. This enables simultaneous charging from both the driving fast charging and the rooftop solar panels. This allows for a maximum of 500W from driving and 300W from solar simultaneously, achieving a total of 800W fast charging. This enables the vehicle to be fully charged in 2-3 hours during driving.



6.13 Work in conjunction

The M2000 is equipped with Working in conjunction capabilities, allowing it to support 2 to 6 units Working in conjunction. This enables the capacity to be expanded to 12 kWh and the power output to be expanded to 10 kW. The American specification supports a maximum of 6 units to Work in conjunction. (3 units in parallel, with the following two groups connected in series to achieve 240V).

Working in conjunction capabilities of the M2000 is achieved through the built-in inverter's synchronization and load balancing capabilities, utilizing a dedicated connect interface located at the circular port labeled "Extend" on the back of the product. This function requires YiLiNK Energy Router and connecting cable. The two ports Router supports two units and the six ports Router supports two to six units to work in conjunction.

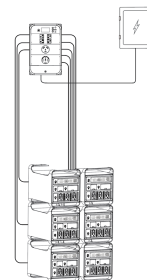


The steps for this function are as follows: First, arrange all the power stations that need to be connected in parallel in the same direction. Maintain a gap of at least 3cm or more (for heat dissipation). Use the connecting cable to link the Extend extension port at the rear of the M2000 with the Extend extension port of the energy router. After all M2000 devices are connected to the YiLiNK Energy Router, proceed to turn on the AC output function of each M2000 unit in sequence. The M2000 will automatically enter conjunction mode. The indicator light on the energy router will illuminate. AC power will be output normally on the energy router.

Notes for Conjunction mode

When starting up in Conjunction mode, it is necessary to first connect all cables before powering on. When shutting down in Conjunction mode, it is necessary to power off each M2000 unit in sequence before removing all connecting cables.

During Conjunction mode operation, the original AC output sockets of the M2000 are all unavailable. Power can only be provided through the YiLiNK Energy Router.



7. Precautions

*Please read Precautions carefully. There are three levels: they are Dangerous, Warning, and Caution.

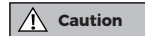
*Dangerous means it might cause personal injury or death.



*Warning means it might cause hazardous things to happen.



*Caution means it might cause product damage or shorter life cycle.



- *When the AC output of the product is 220V, please do not insert your hand or hand-held metal conductor into the AC socket.
- *Do not disassemble the product privately to avoid unknown dangerous things from happening.
- *Do not place the product in a high temperature environment (more than 50 degrees Celsius) or near a fire source.



Warning

- *Disassembling the product is strictly prohibited
- *It is strictly forbidden to use products with obvious damage
- *Please recharge the battery promptly after it is discharged. Do not leave it in a discharged state for an extended period, as this greatly affects the battery's lifespan.
- *Please choose the solar panels according to the electrical parameters specified by the manufacturer.
- *Please charge the power station within the temperature range of 0 ~ 45°C. Charging at too low temperature will shorten the cycle life of the battery cell
- *If idle for a long time (more than three months), make sure there is no less than 50% power storage.
- *If the product emits peculiar smell or heat during charging or storage, please stop charging immediately and place it in an open place for long-distance observation. After confirming safety, contact the manufacturer or dealer.



Warning

- *This product is a portable power station. Please select the corresponding model according to the electrical equipment. Overload and Over voltage is strictly prohibited
- *No short circuit of the product.
- *The factory settings are different according to the different national voltage standard. Please consult your dealer or read the instruction manual carefully before you buy and use.
- *When the product battery is exhausted, please charge it in time.
- *Product parts are environmentally friendly and recyclable. please recycle according to local regulations
- *After using, please shut down the power station in time, the system will consume the battery power until it is empty while is on.

- If storage for more than 6 months, please charge and discharge the power station for 1-2 times to extend the battery

8.Common Q&A

- Q: Does the product utilize aluminum alloy combined with a fan for heat dissipation?

A: The product employs third-generation Gallium nitride (GaN) inverter technology, heat generation reduced by 50%, combined with an alloy casing for heat dissipation, and enhanced fan-driven cooling, improving efficiency and reducing noise levels.

- Q: How to achieve low temperature charging and discharging?

A: For the low-temperature version of the product, it is equipped with low-temperature charging and discharging capabilities, requires special storage bag for heat preservation. After starting the discharge, wait for at least 30 minutes for preheating before use. Low-temperature charging will activate the automatic heating preservation function, continuing until the temperature returns to normal for charging.

- Q: How long can the power station be stored?

A: With more than 50% power, you can store it for 6-12 months, but we suggest you to charge and discharge it every 3 months.

- Q: How long does it take to fully charge the product?

A: The charging time varies significantly depending on the specifications. A simple way to calculate it is to divide the battery capacity (Wh) by the charging power (W). For example, with a battery capacity of 607Wh and a charging power of 120W, the approximate charging time is calculated as $607/120 \approx 5$ hours. Due to the battery charging process being divided into three stages, the constant voltage stage lasts about 1 hour, resulting in a total time of approximately 6 hours. If using dual-channel or multi-channel charging (some models support connecting via PD adapter to the USB-C port), the charging power will stack, significantly increasing the charging speed and reducing the charging time.

● Q: Can the product be discharged while being charged (for output use) ?

A: This product supports discharging while charging. When the output power is greater than the input power, the battery power is slowly reduced, and when it is reduced to a low power state, the output will turn off automatically.

● Q: Is there any temperature protection ?

A: Yes, charging is 45degree, discharging is 60degree

● Q: Will the product shut down automatically ?

A: After the product is deeply discharged, it will automatically shut down. However, under normal circumstances, after turning on in order to supply power continuously, it will not shut down automatically.

● Q: Is there any limit on car displacement when we use the power station for car start?

A: The car starting is essentially charging the car battery, and start the car flexibly. We support all the car model with 12v. there is no limit in car placement.

9. Troubleshooting

9.1 There is no response when the product is turned on, and there is no output for DC, USB, AC, and LED.

Solution

- (1) Remove all electrical equipment, then charge for 5-10 minutes, and restart again
- (2) Please make sure the product is currently running within its temperature range

9.2 The product can be turned on, but there is no output from DC, USB and AC.

Solution

- (1) Check whether the battery power of the product is too low, if yes, please charge it in time
- (2) Check if the electrical equipment power is higher than the output power of the power station. If yes, please remove all the electrical equipment and try again.
- (3) Confirm whether the output of this product meets the power requirements of electrical equipment.

(4) Check whether there is a short circuit between the output port and the electrical equipment. If yes, please restart after removing the equipment

(5) Try to connect the device with other power source, to see if it can run normally. If yes, it might be caused by incompatibility of individual device.

9.3 The product shuts down unexpectedly while running.

Solution:

the activate of the inner protect system cause shutting down of the products.

The factors that might activate the protection system are overcharge, over discharge, high temperature, low temperature, Over current, short circuit.

In order to solve the problem quickly, please remove all electrical equipment, keep the product temperature in the normal temperature range, and charge the product for 5-10 minutes. At the same time, check if there is equipment failure. And then restart.

9.4 Unable to charge the product

Solution:

- (1) Please confirm whether the electrical device power is within the charging range of our power station.
- (2) Check whether the current device has activated the temperature protection because the temperature is too high or too low

10. After-sales Service

Warranty Guideline:

In the event of product failure, please operate according to the manual instruction. If the fault can still not be remove please contact our aftersales technician. When contacting the after-sales technician, please provide the following information: product model, date of purchase, contact number, detailed address, product failure description

Please help our after-sales technician to understand the details of the failure, so that our after-sales technician can identify the cause of the failure accurately, and work together with our after-sales technician to resolve the problem. If it is confirmed the products needs to be returned for repair, please contact the dealer or Online sales platform and request for repairment. Our after-sales team will respond to the request promptly.

- We provide 12 month of warranty since the date of purchase. 24 month of warranty will be provided for the purchase from the maker directly.
- During warranty, we will provide free repairs and free parts replacement for product defects in materials and workmanship, or damages caused by non-human reasons
- During the warranty period, the following conditions cannot enjoy free maintenance services
- Open the product privately
- Obviously deformed damage caused by external force is not covered by the warranty
- The user does not follow the manual instruction.
- Failure or damage caused by force majeure (lightning, flooding, etc.), man-made (operation error, charging with non-original chargers, etc.), and environmental factors (high temperature, humidity, etc.);
- Product packaging boxes and product accessories are not covered by the warranty

Disclaimer:

The power station has a built-in battery management system, which can protect the product from overcharge, over discharge, over current, short circuit, high and low temperature, communication abnormality, etc., When supply power to special equipment, such as medical equipment and server, the power supply might interrupt due to the activation of the protection system. Our company does not responsible for the loss (direct and indirect) caused by power supply interruption

Yilink New Energy Co.,Ltd

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