User Manual

Outdoor Power Supply Apower1000&Apower2000
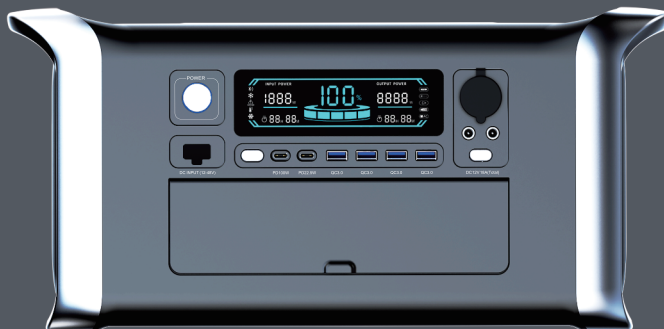
Table of Contents

1. Apower Product Introduction

(1) Safety and Performance Upgrade: The Apower1000 utilizes automotive-grade soft-pack lithium iron phosphate batteries, ensuring higher safety levels, greater power output, and an extended cycle lifespan, providing users with enduring and reliable energy storage.

(2) Ultra-High Power Output: The overall output power of the device reaches 2000 watts, meeting the efficient energy needs of various devices, ensuring stable power supply in all scenarios.

(3) Multiple Intelligent Charging Methods: The Apower1000 supports bidirectional inverted grid fast charging, car charging, and 500-watt solar charging, intelligently meeting energy replenishment needs in various scenarios.

(4) Intuitive Smart Display: The device is equipped with a color LCD screen, intuitively showcasing vital information such as remaining battery capacity, remaining time, charge-discharge power, and device status. This provides users with an intelligent energy management experience.

Supported Devices: Rice cookers, mini refrigerators, speakers, televisions, mobile phones, computers, digital cameras, tablets, LED lights, outdoor lighting for emergencies, outdoor power tools, and more.
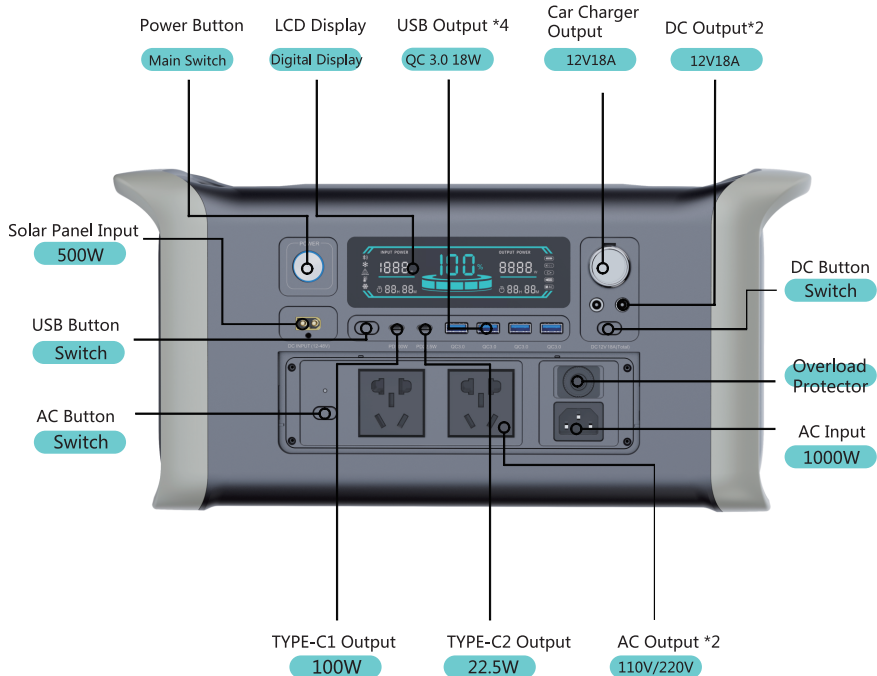
Application Scenarios: Disaster relief, emergency rescue, outdoor travel, camping, and family charging in various fields.

2. Important Points

(1) Please avoid using this product in high temperature and humid environments to ensure optimal performance and longevity.

(2) When not in use for extended periods, please ensure that the product's battery level is maintained at 60% or higher to safeguard battery health and performance.

(3) In case of product issues, please do not attempt to disassemble or repair it yourself. Instead, contact the distributor to arrange for factory repairs. Unauthorized self-repair will void the warranty.

(4) The AC output of the product features a sleep function. If you need to deactivate the AC sleep mode, press the AC button three times to make the AC indicator icon flash and enter continuous output mode.

3. Product Visuals

Note: The product visuals are for APOWER1000.

Label	Value
Power Button	Main Switch
LCD Display	Digital Display
USB Output *4	QC 3.0 18W
Car Charger Output	12V18A
DC Output*2	12V18A
Solar Panel Input	500W
DC Button	Switch
USB Button	Switch
Overload Protector	
AC Button	Switch
AC Input	1000W
TYPE-C1 Output	100W
TYPE-C2 Output	22.5W
AC Output *2	110V/220V

LED Display Screen

The LCD display screen shows the charging and discharging status of the product.
When you use the product, corresponding icons will light up on the LCD display screen.
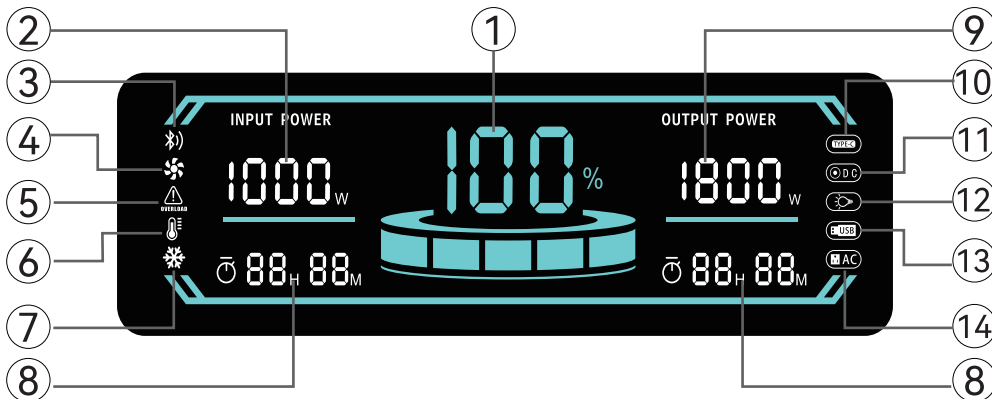
No.	Illustration Legend		
1	Indicates the current remaining battery level of the product	8	Indicates the current remaining charging/discharging time of the product
2	Indicates the current input power of the product	9	Indicates the total output power of the product
3	Indicates the product's Bluetooth and WiFi icons	10	Indicates the product's TYPE-C icon
4	Indicates the product's fan icon	11	Indicates the product's DC icon
5	Indicates the product's overload protection icon	12	Indicates the product's LED lighting icon
6	Indicates the product's high-temperature warning icon	13	Indicates the product's USB icon
7	Indicates the product's low-temperature warning icon	14	Indicates the product's AC icon

4

4. Product Specifications

Model	Apower1000	Apower2000
Product Dimensions	447*234*219mm	483*295*298mm
Net Weight	13.5kg	25.5kg
Battery	LFP Soft-pack Battery System	LFP Soft-pack Battery System
Capacity	320000mAh	640000mAh
Cycle Lifespan	3000 Cycles >80%	
AC Output	1800W(220V)	2600W(220V)
	1600W(110V)	2400W(110V)
DC Output	DC5525*2: 12V18A/200W max (shared output with cigarette lighter)	
	Cigarette Lighter: 12V18A/200W max (shared output with DC5525)	
USB Output	TYPE-C1:100W	
	TYPE-C2:22.5W	
	USB*4:5V3A/9V2A/12V1.5A	
AC Charging	1000W	1000W
Car Charging	12V8A 100W	12V8A 100W
Solar Panel Charging	500W	600W
UPS	Switching time between mains power and battery: <20ms	
Operating Temperature	Charging Temperature: 0°C~45°C (32°F~113°F)	
	Discharging Temperature: -10°C~50°C (-4°F~122°F)	

5.Code Fault Explanations

| No.	Code	Fault Explanations
1	Er01	Indicates current BMS communication timeout
2	Er02	Indicates current inverter communication timeout
3	Er03	Indicates current charging protection
4	Er04	Indicates current low-temperature protection
5	Er05	Indicates current undervoltage protection
6	Er06	Indicates current overvoltage protection
7	Er07	Indicates current overload protection
8	Er08	Indicates current short-circuit protection

5.1 How to Troubleshoot Code Faults

No.	Clearing Faults
Er01	Check the communication line connection between BMS and the panel, or other possible causes of communication failure.
Er02	Check the communication line connection between the inverter and the panel, or other possible causes of communication failure.
Er03	Wait for the BMS high-temperature condition to be resolved or discharge to remove the overcharge protection.
Er04	Wait for the BMS low-temperature condition to be resolved.
Er05	Recharge to replenish energy or investigate inverter hardware issues.
Er06	Discharge or investigate MPPT input voltage and inverter hardware issues.
Er07	Wait for cooling down and then restart, or investigate inverter hardware issues.
Er08	Eliminate hardware faults and reboot.

Note: After clearing the above faults, shutting down and restarting the machine will remove the fault display.

6.Product Operation Instructions

## 6.1 How to Charge the Machine Using Mains Power
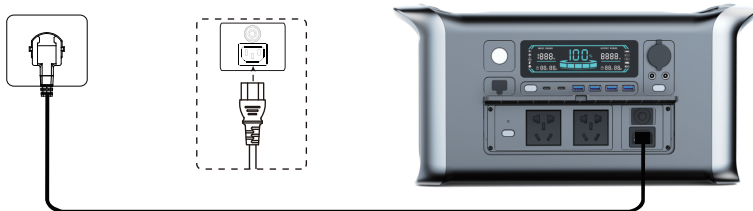
Step 1: Plug the power cord into the mains socket.

Step 2: Insert the power cord's pronged plug into the machine's power port.

Note: The machine features a BMS charging protection system. Charging should be done normally; it will automatically stop charging when fully charged to prevent other unexpected events. It is recommended to disconnect the power promptly after the product is fully charged to avoid any other unforeseen situations.

## 6.2How to Charge the Machine Using Solar Power
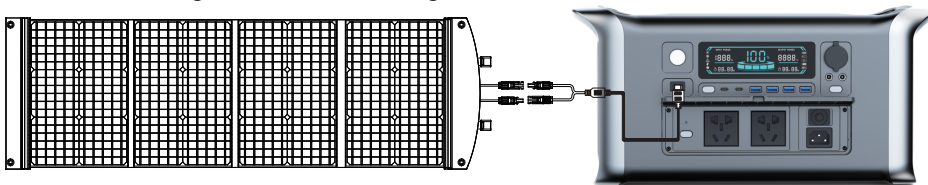
Step 1: Unfold the solar panel and position it at a 45-degree angle toward the sun.

Step 2: Insert the port of the unfolded solar panel into the XT60 interface on the front of the product.
Note: The power output of the solar panel is influenced by sunlight. If there is obstruction, it will affect the efficiency of solar conversion and result in dynamic changes in remaining time. This is a normal phenomenon.

6.3 How to Use Car Charging
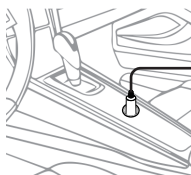
Step 1: Start the vehicle.

Step 2: Insert the car charger cable into the car's cigarette lighter socket.

Note: Insert the XT60 power cable plug into the XT60 interface on the front of the machine.

7. Product Function Explanation

Note: If the output is suddenly interrupted, first check if peripheral electrical devices have excessive power consumption or a short circuit. Then restart the machine and verify if its functions are normal.

Operations

Step 1: Main Switch Button

Step 2: Short press 1.5 seconds to turn on/off

Step 3: Long press 3 seconds to shut down the entire power system (Serial Number ①)

Step 1: AC Switch Button

Step 2: Short press 1.5 seconds to turn on/off

Step 3: Long press 3 seconds to turn on AC, screen icon lights up for output (Serial Number ②)

Operations

Step 1: USB Switch Button

Step 2: Short press 1.5 seconds to turn on/off

Step 3: Single click USB button to activate, TYPE-C and USB icons light up simultaneously for output (Serial Number ③)

Step 1: DC Switch Button

Step 2: Short press 1.5 seconds to turn on/off

Step 3: Single click DC button to activate, DC icon lights up for output (Serial Number ④)

7.1Sleep Mode

1. Press the AC button 3 times for ON/OFF
(Cancel auto-shutdown when the AC icon is flashing).
2. Press and hold the AC button for about 2 seconds for ON/OFF
(Automatic shutdown after light load for 30 minutes).

8.Package Contents

Packaging List				
Main Unit	AC Power Cord	Car Charger Power Cord	Solar Panel Power Cord	User Manual

9

9.Warranty Card

Warranty Card

This product provides warranty services for months from the date of customer purchase.

Coverage Conditions:

When requiring warranty service, please present this warranty card and provide detailed information.

Our company provides a warranty period of months from the date of product purchase.

Warranty Scope:

1. Product quality issues that occur under normal use.

2. Damage caused by operational errors is not covered under warranty.

3. Warranty is not provided after self-disassembly.

4. Machines with torn labels will not be covered under warranty.

Products located outside the warranty scope can still receive repair services from our company. However, the cost of repairs shall be borne by the customer.

No.	Product Model		
1	Purchase Date	6	Factory Serial Number
2	Customer Name	7	Repair Date
3	Customer Address	8	Contact Phone
4	Sales Unit		
5	Description of Product Abnormality		

This product is insured by China People's Property Insurance Co., Ltd. Policy No.: [Policy Number] PZAI202344030000000182