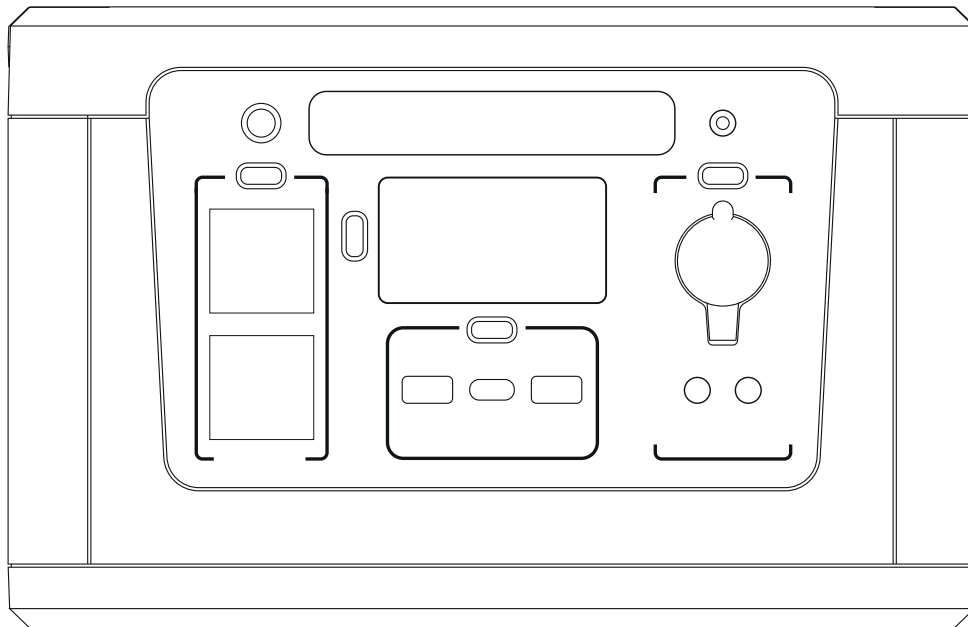


# 600W Portable Power Station Emergency Power Source

## User Manual



Professional Power Supply Solutions

Model: AK-PS-04

## Preface

Thank you for purchasing this 600W portable power station.

This portable power station has a powerful battery capacity of 560Wh, supporting AC wall outlets, solar panels and vehicle charging ways, and is designed to keep your electronic devices powered while on the go.

It comes with AC outlets, 12V DC output ports, 12V car port, Type-C port and fast charging USB ports 3.0 for your convenience. Perfectly for outdoor travel, it is compatible with most electronic devices such as drones, laptops, lights, smart phones, tablets and cameras.

You can charge your electrical or digital devices with this unit in case of a power failure or when you are out or on a road trip.

It also works as an emergency power kit. Especially, it's suitable for locations that are prone to severe weather patterns and natural disaster related power failures including typhoons, floods, hurricanes, earthquakes, forest fires, snowstorms and low-temperature disaster-prone areas.

The power station is also suitable for camping and works well in keeping outdoor electrical appliances charged for uses such as night time power supply, medical power supply and general household electricity storage.

## Package Contents

- 1 \* AC Power Adapter
- 1 \* AC Power Cord
- 1 \* DC Cable
- 1 \* User manual

## Warm Tips:

Before using our power station, please read the following instructions carefully:

1. This power station has a built in lithium battery which is highly sensitive to high temperature - Keep it away from heat sources like direct fire or any heat sources.
2. Keep away from moisture or water.
3. Do not disassemble microwave, puncture, incinerate or insert foreign objects into the power station.
4. Do not crush, bend, shred, drop or place heavy objects on top of the device.
5. Do not use the product if damaged or punctured.
6. Always be prepared - Charge the unit every three months also if it is not used.

## Technical Specification

Battery Capacity	Lithium-ion 461Wh(20.8Ah/22.2V)
AC Input Charging	External 120W adapter
Car Input Charging	DC12V~24V/120W MAX
Solar Input Charging	DC12V~24V/120W MAX
USB-C Charging	PD 100W MAX
Output Ports	2* AC Output: 230V, 50Hz, 600W, Peak 1200W *Note: when the battery capacity $\leq 10\%$ , AC max output power is 150W(to protection of battery cycle life)
	USB Output 1: DC 5V3A or DC9V2A or DC12V1.5A USB Output 2: DC 5V3A or DC9V2A or DC12V1.5A USB Type-C : DC 5V5A or DC9V5A or DC12V5A or DC15V5A or DC20V5A(PD100W) DC Output 1: DC13.8V, 3A DC Output 2: DC13.8V, 3A DC Output 3: DC13.8V, 10A Max Output Regulated
LED Lights	2W MAX,3 Levels(L/M/H adjustable) with SOS function
Safety Protections	Short-Circuit Over-Current Over-Voltage Low-Voltage Over-Load Over-Temperature
Operation Temperature	0~40°C(32~104°F)
Battery Charge Cycles	1000times DOD $\geq 80\%$ + capacity
Pass-Through Charging	Support
Weight	5 kg

# Using Your 600W Power Station

2 Press the power button or any other port button to turn on the unit. When

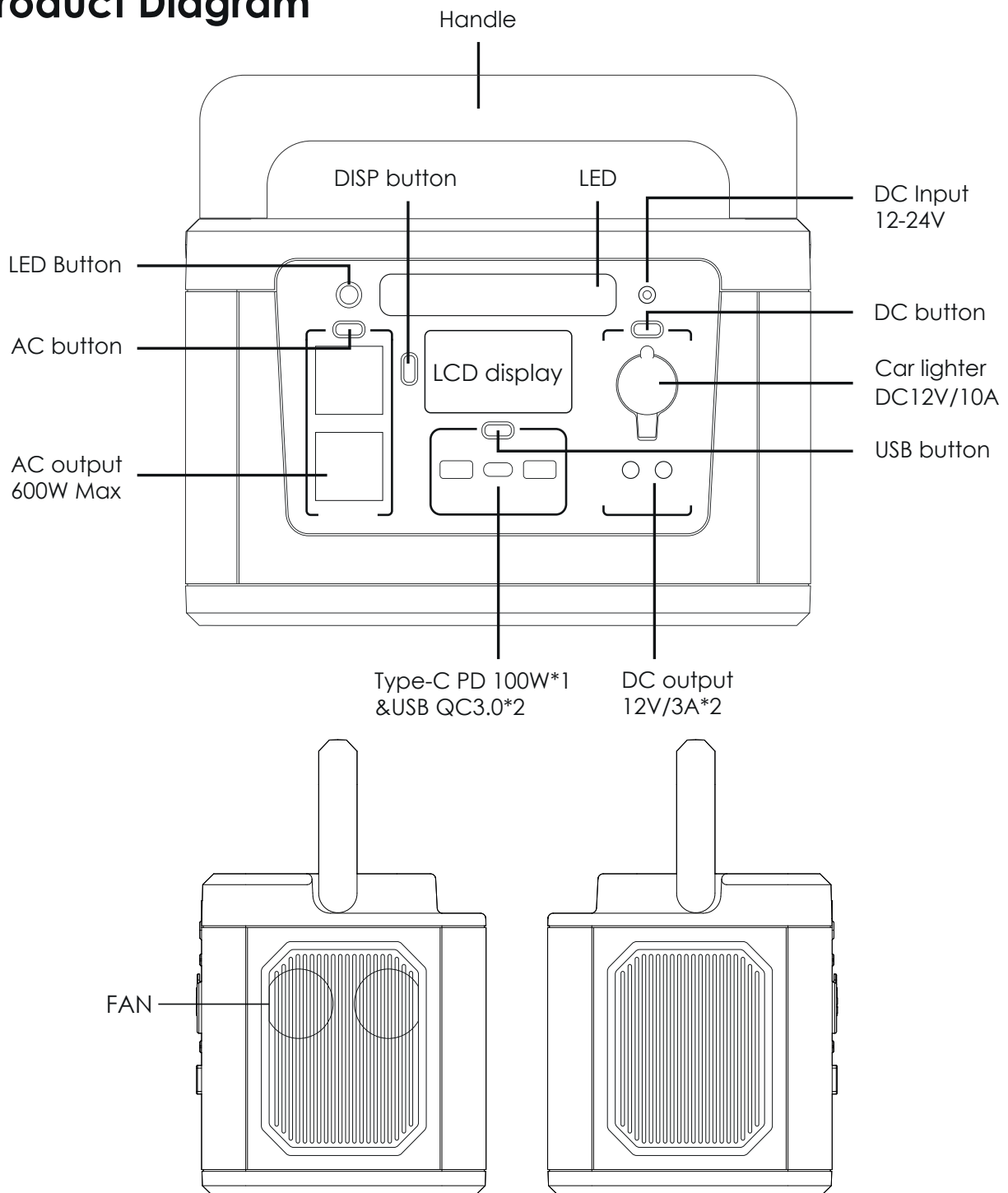
3 not using certain ports, it is best to turn them off to conserve power.

4 Read the LCD screen to know which port is turned on.

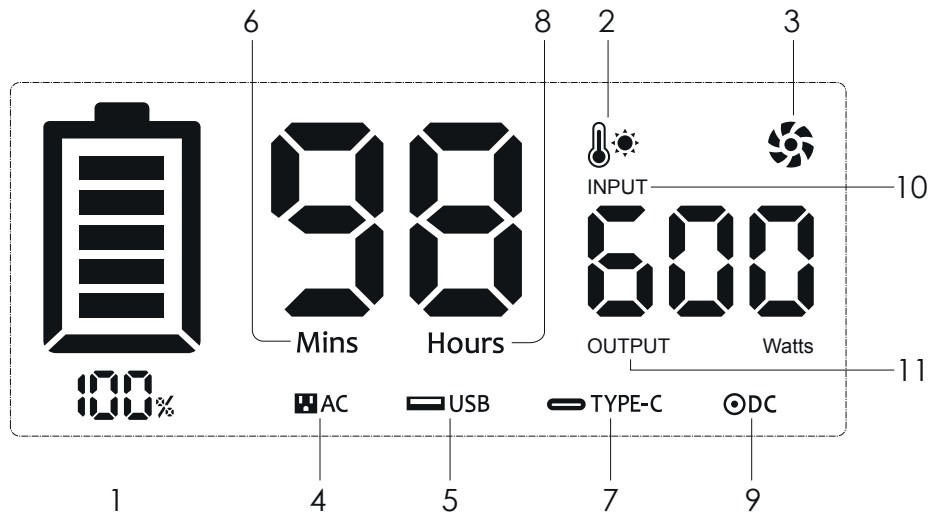
Plug in your gear.












Your unit supports full pass-through charging so you can charge your power station and run your gear at the same time.

## Product Diagram



# LCD Display



1	 100%	Remaining Battery Percentage	② 	Temperature warning
③		Cooling Fans	④ 	AC Output Indicator
⑤		USB Output Indicator	⑥ 	Remaining Usage Time or Remaining Charging Time (Minute)
⑦		Type-C Output Indicator	⑧ 	Remaining Usage Time or Remaining Charging Time (Hour)
⑨		DC Output Indicator	⑩ 	Input Power
⑪		Output Power		

## Please Note

1. Remaining usage time is dependent on output wattage and what item(s) are being charged.
2. Remaining wattage and time will priority to display output power and usage time while charging and discharging simultaneously.

## Auto-Sleep Mode:

To avoid forgetting to turn off the output during use, which leads to unused battery consumption, this product will turn to Auto-Sleep mode when no device is connected or the connected device is less than or equal to a certain value, the unit will automatically shut down after 1 hour.

Refer to the table below for more details:

Output	Output Power	Defaults
AC Output	$\leq 2W$	The device will automatically shut down after 1 hour
USB Output	$\leq 2W$	The device will automatically shut down after 1 hour
Car Output	$\leq 2W$	The device will automatically shut down after 1 hour

\*Press any of the port buttons to restart the power station.

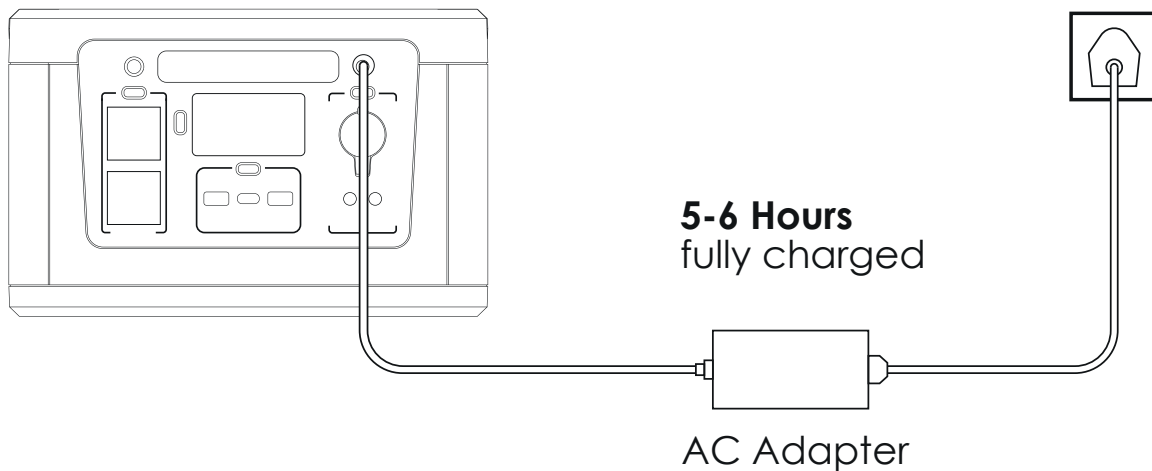
\*The unit will entering to Auto-Sleep mode by detected no output after 1 hour, user can switching the time with the following setting. Set up time to 1 hour or 12 hours by long pressing "USB" button for 3 seconds, Please check the time on the LCD screen within 3 seconds after hear the buzzer sounds which shows the set standby time.

The Auto-Sleep time is 1Hour: If there is no power output within 1 hour, the automatic sleep mode is activated, and the power station will be automatically turned off.

The Auto-Sleep time is 12Hours: If there is no power output within 12 hour, the automatic sleep mode is activated, and the power station will be automatically turned off.

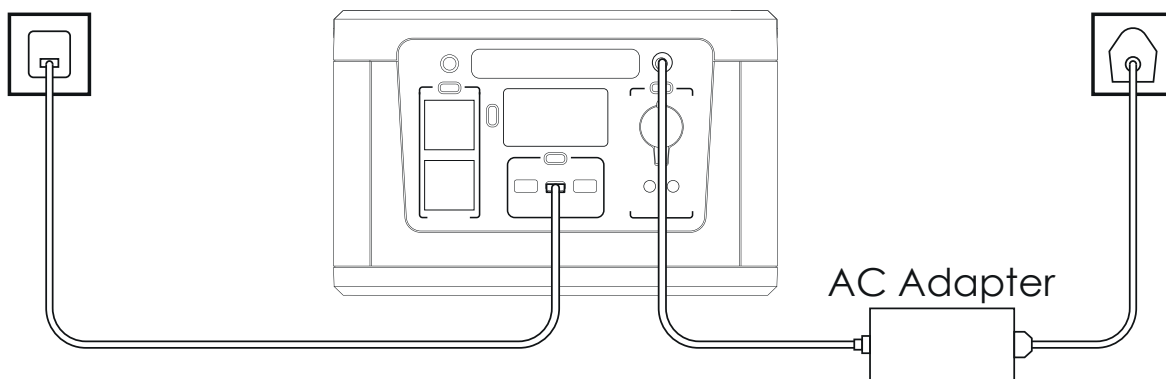
# Ways to Recharge

## 1.AC Wall Charging



## 2.AC Wall Charging + USB-C(PD100W) Charging

2.5-3.5 Hours fully charged



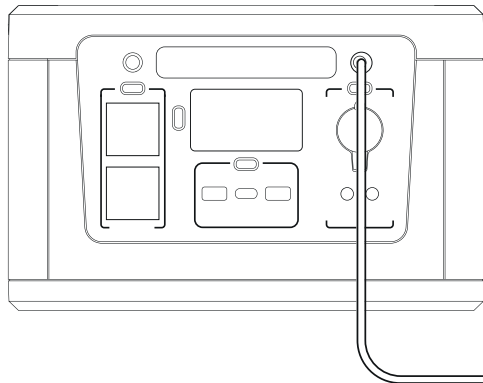
\*USB-C(PD100W) charging Instructions:

- 1).Please turn on "USB"Button to when using USB-C charging.
- 2).When unit in deep discharge 0%,you need to charging power station by AC adapter to activate power station firstly and insert USB-C charger to start charging.
- 3).USB-C charger(PD charger)need to buy it separately,do not included in this package.

### NOTE:

- 1.Only support the original charger to recharge the power station, DO NOT USE generic chargers, they could overheat or start to burn.
2. The surface of AC adapter heats up when charging.  
During hot summer seasons the temperature of AC adapter surface will reach up to 80°C. Therefore the AC adapter working temperature range is strictly comply with safety certification. Please do not cover the surface while charging.

### 3.DC Vehicle Charging

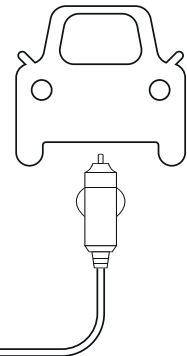


12V Car Charging

**6-7 Hours**  
fully charged

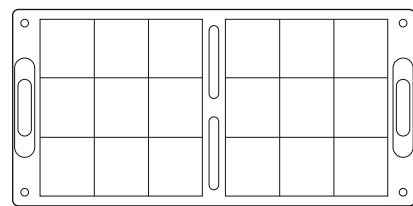
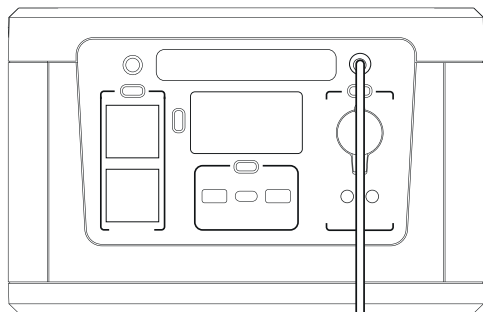
24V Car Charging

**5-6 Hours**  
fully charged



### 4.Solar Panel Charging

We recommend a 100W-120W solar panel with the voltage of DC 13V-24V. Never use higher than DC 24V to recharge this power station.



1\*120W Solar Panel

**5-6 hours**  
fully charged (in full sun)

### Safety Precautions When Charging

1. Do not charge from car charger and solar panel at the same time, otherwise it will damage the car fuse.
2. Please don't put the power station in direct sunlight while charging in the high temperature environment.



# Usage

## Emergency:

Used as an emergency power supply, the unit is especially suitable for locations that are prone to severe weather patterns and natural disaster related power failures including typhoons, floods, hurricanes, earthquakes, forest fires, snowstorms and low-temperature disaster prone areas.









## Outdoor Activities:

Road trips, camping, outdoor celebrations, fishing, climbing, outdoor photography enthusiasts, RC helicopter drone charging, farming and bird watching.

## Home Backup:

Home and office electrical device charging, energy-saving lamps, television, mini refrigerators, Christmas decoration lights, printers, laptops, fans and smart mobile phones.

## Usage time of devices

 iPhone 90+ Times	 20W Lamp 25 Hrs	 DRONE 16+ Recharge	 Laptop 13" 12 Hrs
 50W Fan 10 Hrs	 *Mini Cooler 24 Hrs	 CPAP 11.5 Hrs	 32" LCD TV 6.5 Hrs

### NOTES:

- 1.Run time= $461\text{Wh} \times 90\%$ (conversion rate)/Your device's power(Watts).
- 2.Support all electronic devices less than 600 Watts.
- 3.It is recommended to use a DC port instead of an AC outlet to power your CPAP machine.
- 4.\*The usage time for refrigeration machines with compressors mainly depends on temperature setting and start frequency of compressors,it's usually lasting longer time than certain reference time.
- 5.The above charging times are calculated as a reference guide only. The actual usage time will depend on the power of the connected devices.

## FAQS and Solutions

### 1. How do I know whether my appliance can work well with the power station?

Please check the rated label of your device first. If the device's operating power is within 600W, you can use the device normally.

### 2. How long can it run my device?

Running time = 461Wh battery capacity\*90% conversion rate / Device Rated Power  
Eg. If you run a 50W cooling fan, the running time will be:  $461\text{Wh} \times 90\% / 50\text{W} \approx 8,3\text{hrs}$

Please Note:

1) The formula is NOT suitable for inductive loads with compressors, like refrigerator, air conditioner, etc.

2) The above data is for reference ONLY.

### 3. Why is there any sound during use or charging?

This product with intelligent temperature control system, built-in fans help our product to get better cooling and securing usage, slight noise is normal during using or charging.

### 4. Can i charge the power station while a device is plugged in?

Yes, this unit support Pass-Through Charging, you can simultaneously charge other devices while recharging the power station.

### 5. How to keep this product when it is not used for a long time?

If the battery is to be unused for a long time (more than 3 months), please recharge it every 3 months to keep the battery power above 50% if you don't use it (it's recommended to check and charge every 3 months). Store it in a dry and cool place with temperature range between -20° and 60° Celsius, and humidity 20%~85%RH. Avoid contact with corrosive substances fire and heat sources.

### 6. Can it be used to jump start a car?

No, it cannot be used to jump start a vehicle.

## 7. Why does the power station has the Auto-Sleep mode?

To avoid forgetting to turn off the output during use, which leads to unused battery consumption, this product will turn to Auto-Sleep mode when no device is connected or the connected device is less than or equal to a certain value, the unit will automatically shut off after 1 hours.

## 8. Is the power station waterproof?

No, please do NOT store it in a humid environment for a long time. Please store it in a dry and cool place.


## 9. Are the batteries used replaceable or upgradeable?

NO. Batteries are built in. NOTE-Opening of the unit will void your warranty.

## 10. Are the built-in batteries replacement or upgradeable?

No. If the battery pack is faulty or even dead, please contact our Customer Service.

# Common Trouble Shooting

Failure Description	Types	Solutions
Unit can not charging from AC wall outlets	AC charging fault	1. Please ensure to use original AC adapter. 2. Please check if the AC wall plug is correct connection. If not solved, Please contact our after-sales service.
Unit can not charging from solar panel	DC solar charging fault	1. Please ensure solar charging connection is correct under user manual. 2. Please ensure connected solar panel specification is meet specified standard. 3. Please ensure solar panel charging under sunlight environment. 4. If not solved, Please contact our after-sales service.
LCD Screen icon flash "AC" "DC" "USB"	Over-current protection Short circuit protection Over-voltage protection Low-voltage protection Over-Load protection	Resolve the problem by pulling out plug or remove electrical devices, the product can recover itself after re-start. If not solved, Please contact our after-sales service.
 High-temperature icon continuous appears	High-temperature warning	Power station can recover itself after battery cooled.

## Warranty & Customer Service Support

Thanks for purchasing our 600W portable emergency power station. If you have any questions about it, please feel free to contact us. Your valuable opinions and suggestions are highly appreciated. Welcome to leave your real and objective reviews to help other buyers for reference. The AK-PS-01 is covered a warranty of 24 months from the date of its original purchasing.

### CAUTION

- a) Do not overcharge the internal battery. See instruction manual.
- b) Do not smoke, strike a match or cause a spark in the vicinity of the POWERSTATION.
- c) Only charge the internal battery in a well ventilated area.
- d) Risk of Electric Shock. Connect only to properly grounded outlets.
- e) Risk of Injury to Persons. Do not use this product if the power co battery cables are damaged in any way.
- f) Keep away from moisture or water. Do not use outdoors on rainy days.

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