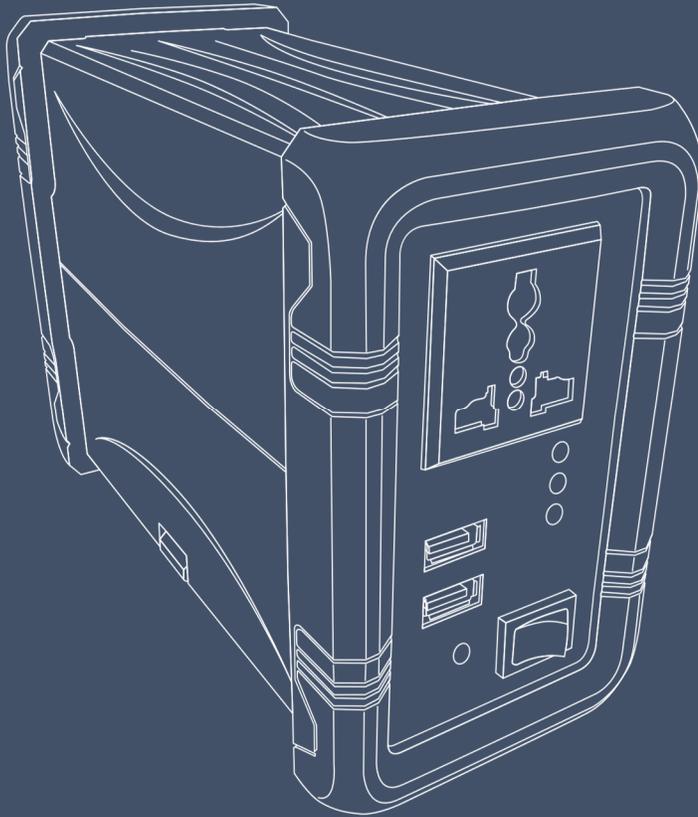


SUN SYNK

POCKET POWER STATION Portable Power Bank



USER MANUAL

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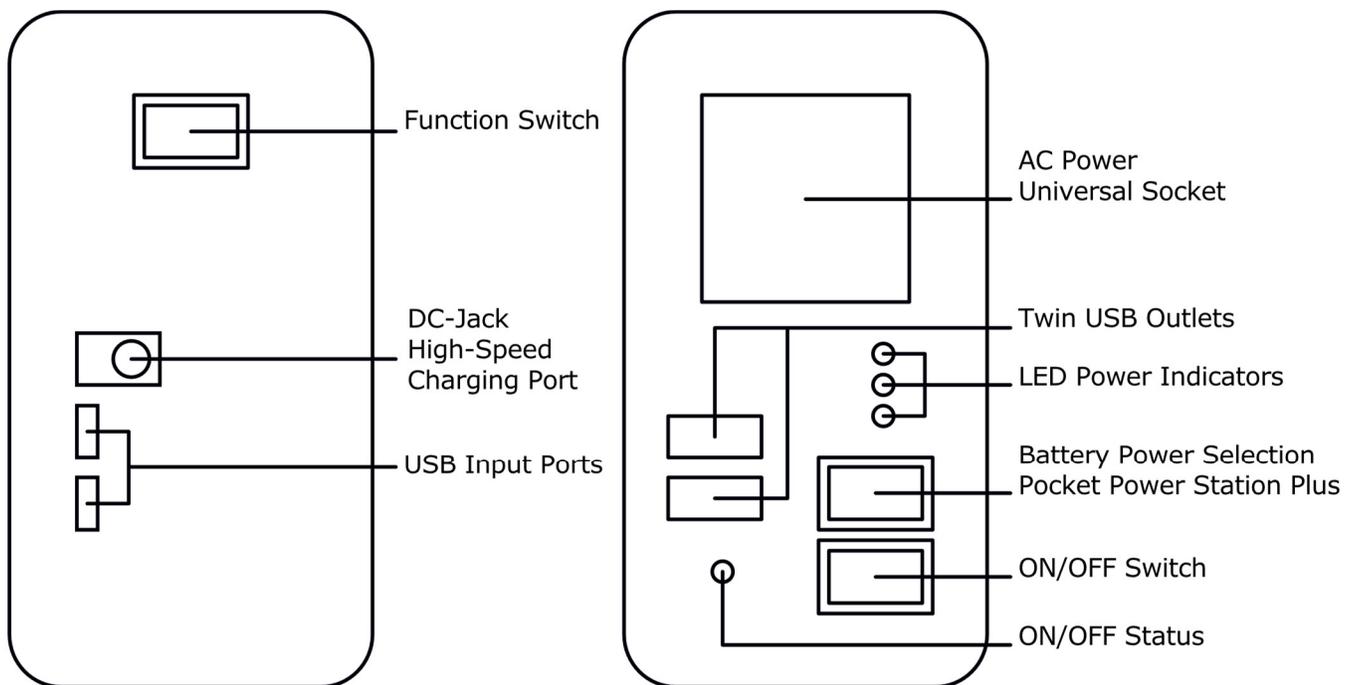
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1. INTRODUCTION

The Pocket Power Station is a typically 150Wh storage device that is rugged, portable, and convenient to be used as a portable power supply. It can provide power to many different utilities up to 100W with AC power and is highly useful to outdoor applications or in those locations where the mains supply is poor or non-existent. The Pocket Power Station is a plug-and-play portable power source that will run numerous electrical devices in remote areas and be a useful addition to equipment taken camping, yachting, or any other isolated location.

2. GETTING TO KNOW THE POCKET POWER STATION

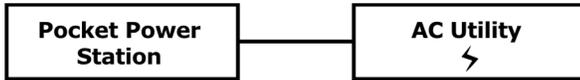


3. USING THE POCKET POWER STATION

The Pocket Power Station has two settings on the ‘function switch’

a) Constant power (UPS - limited to 25W devices such as laptop computer or emergency lighting)

Simply plug either an ‘extension socket’ into the 3-pin socket or USB connector into the correct sockets, and as long as the utility does not exceed the 200Wh ability of the Pocket Power Station, the utility(s) will function.



b) Night-time use only (when not charging)

The Pocket Power Station 1, can switch automatically when it is not charging or when there is no sun. This is especially useful when powering lighting as you don't need the lights to be illuminated during the day.



Once the power begins to drain from the Pocket Power Station, the three lights (Status LED) will drop to two or one. In the case of the Pocket Power Station Plus, the device will switch from the empty battery to the next full battery and use it up until fully drained.

4. TECHNICAL SPECIFICATION

FEATURES

- One Pocket Power Station casing contains a charge controller, a battery pack, and an inverter.
- It is 20cm x 14cm x 9cm in size and weighs 1.45Kg
- The Lithium-Ion batteries come in four sizes: 100 / 150 / 180 and 230 Wh.
- It will provide 230-240V AC Power.
- It can be charged by USB / mains adapter and solar panel.
- It can provide a maximum of 100W via a standard AC multi-socket or DC power via two USB sockets.

PHYSICAL CHARACTERISTICS

Product Color	Orange body with grey shock absorbers
Durability	No conductivity, dust explosion, shock or vibration in work place
Warranty	2 years
Material	Molded Polycarbonate
Operating Temperature	-20 to +50°C
System Adaptability	Plug-and-play
Certificates	CE, IEC, ROHS, SAA

ELECTRICAL CHARACTERISTICS

INPUT	
Maximum Recommended PV Power	50W
Maximum Input Voltage	DC21V
OUTPUT	
Maximum Apparent Power	100W
Maximum Output Power	130W
Rated Voltage	AC230V
Operating Voltage Range	9.6 to 12.6 Volts Nominal
Operating Frequency Range	50Hz
Total Harmonic Distortion	MSW
Efficiency	90% / Peak Efficiency 75%

5. SAFETY

- Make sure the Pocket Power Station is fully charged prior to use.
- Use suitable cables when charging your device from the Pocket Power Station.
- When charging the Pocket Power Station, it is recommended that you use the provided Sunsynk® connectors.
- The Status LED Array indicates a low battery. In order to avoid shortening battery life, ensure the device is fully charged so that all three lights are illuminated.
- During periods of storage, the Pocket Power Station should be charged at least once every two months to avoid battery life decay.
- Keep the Pocket Power Station away from fire and avoid temperatures above 140oF (60°C) when not in use.
- Do not get the Pocket Power Station wet or immerse it in water.
- Do not wash the Pocket Power Station with a corrosive cleaner.
- Do not puncture or fracture the Pocket Power Station so as to avoid electric shock or electrolyte leakage from the lithium-ion battery(s).
- Do not attempt to disassemble, modify, or fix the Pocket Power Station.
- Do not use a damaged cable or power charger for the Pocket Power Station.
- Please re-cycle this device at an appointed disposal location for lithium-ion batteries

6. TROUBLESHOOTING

- The Pocket Power Station has been tested to be strong and weatherproof. In order for the device to function correctly, the battery should be placed inside and charged fully so that all LEDs are illuminated. The battery must be firmly locked into the recess so that it cannot fall out.
- If any charger is placed inside the micro-USB sockets that do not match up correctly, the Power Station will not charge.

- In the event that too many utensils have been plugged into the Pocket Power Station, it will cut out. In this case, switch off the device and remove the battery. Then immediately replace the battery and switch the device back on. This is, in fact, a reboot of the device's software.
- There is a blue light on the 'output' side that displays when the unit is working properly. In the event that the unit is overloaded / faulty or there is a low battery, the light will start to flash 'RED'. Then disconnect the load (appliances) and re-charge the battery.

7. FREQUENTLY ASKED QUESTIONS

Q.1: Can I take my Pocket Power Station with me when I fly to another country?

A.1: Yes, you can. The Lithium batteries are designed to a power measurement below 160 Watts, which is the limit for flying. The battery should be removed, and its terminals taped over. In addition, you should place it in a plastic bag. Both Pocket Power Station and battery should be placed in hand luggage only.

Q.2: Can I take the Pocket Power Station when I do water sports?

A.2: The product is built to IP65 standards, which means it can take a splash of water or humidity, but it is not waterproof and should be placed inside a waterproof container before taking near the marine environment. The Pocket Power Station cannot be submerged, and contact with water must be avoided.

Q.3: I have a powerful electronic device. How will I know if the Pocket Power Station will power it?

A.3: Look at the instruction manual of your device. It will contain a figure explaining the watt/hour consumption of the device. If it uses 40Wh then divide the 159Wh of the Pocket Power Station by 40, and you will come to approximately 4 so 'YES'. Your device will run for 4 hours approximately on a fully charged Pocket Power Station.

Q.4: I see that there are two USB input ports. Can they charge the Pocket Power Station at the same time?

A.4: Yes. You may plug in two USB power sources and speed up the charging process.

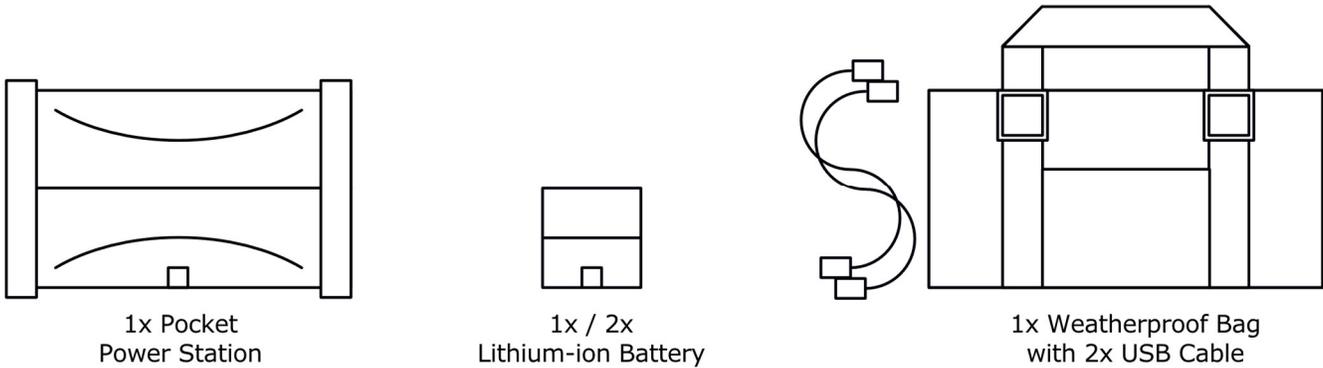
Q.5: Can I attach different sizes of the solar panel to the Pocket Power Station?

A.5: You may attach any solar panel not exceeding 50 Watts as the Pocket Power Station is designed to handle this panel size.

Q.6: Does the Pocket Power Station get hot?

A.6: The Pocket Power Station does not get hot; however, it should not be placed in direct sunlight.

8. UNPACKING THE POCKET POWER STATION

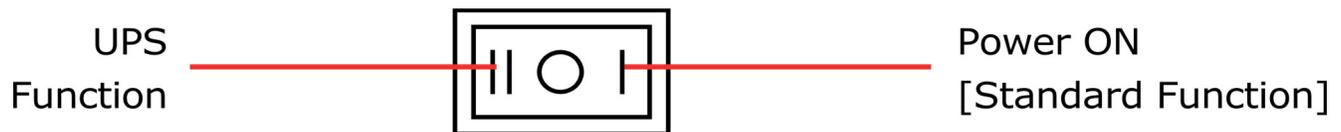


9. WHAT THE POCKET POWER STATION CAN POWER

The power of the device restricts the ability of the Pocket Power Station; therefore, any user should consider what utility will be plugged into it. Should the device be overloaded, it will simply cut out. The user will need to switch it off, remove the battery, and immediately replace it, thereby rebooting the Pocket Power Station software. The below table demonstrates loading for the Pocket Power Station bearing in mind that the maximum load at any one tie is 100W.

Pocket Power Station	Device	Est. Power	Power Duration
100W	Laptop Computer	50W	2 Charge Cycles
100W	Color TV 19"	40W	2.5 hours
100W	Table Fan	10W	10 hours
100W	60W Incandescent Bulb	60W	1.5 hours
100W	Internet Router	5W	20 hours

10. CHARGING THE POCKET POWER STATION



From USB/Mains supply

Use either one or two micro-USBs and simply plug them into one or both USB sockets. The charging time will speed up if two micro-USBs are used at the same time. Each micro USB should be rated at a maximum of 2000 mAh. With one USB 2-amp type, the charging time will be 15hrs maximum and typically 10 hours. When two USB 2-amp types are attached, the charging time will be 7 hours maximum and 5 hours typically.

From mains adapter

Remove the Sunsynk Li-ion Battery pack charger from the bag and connect it to a nearby mains supply. Plug the DC jack into the DC input on the input side of the power station. Wait 4-5 hours or until the 3 LEDs on the output side of the PPS1 are fully light. From Solar Power. The attached solar array can be connected via the 'DC Jack Input', which is located above the two USB ports. Plug the panel's DC jack into the DC input on the input side of the power station. Adjust the position of the panel during the charging period to make sure it gets maximum sunshine. (Charging time is 4-5 hours in good sunshine) via Phone charger or Computer USB Port, Any phone charger (apart from Apple) can be plugged into the device via the USB ports. In all cases, 'Full Power' will be indicated by three LEDs becoming fully illuminated. Use either one or two micro-USBs and simply plug them into one or both USB sockets. The charging time will speed up if two micro-USBs are used at the same time. Each micro USB should be rated at a maximum of 2000 mAh. With one USB 2-amp type, the charging time will be 15hrs maximum and typically 10 hours. When two USB 2-amp types are attached, the charging time will be 7 hours maximum and 5 hours typically.

From mains adapter

Remove the Sunsynk Li-ion Battery pack charger from the bag and connect it to a nearby mains supply. Plug the DC jack into the DC input on the input side of the power station. Wait 4-5 hours or until the 3 LEDs on the output side of the PPS1 are fully light.

From Solar Power

The attached solar array can be connected via the 'DC Jack Input' which is located above the two USB ports. Plug the panel's DC jack into the DC input on the input side of the power station. Adjust the position of the panel during the charging period to make sure it gets maximum sunshine. (Charging time is 4-5 hours in good sunshine) via Phone charger or Computer USB Port, Any phone charger (apart from Apple) can be plugged into the device via the USB ports. In all cases, 'Full Power' will be indicated by three LEDs becoming fully illuminated.

11. LI-ION BATTERY WARNING



WARNING:

Take great care when handling the battery. Lithium-ion cells and battery packs may get hot, explode or ignite and cause serious injury if exposed to extreme conditions. Be sure to follow the safety warnings listed below:

- DO NOT connect the positive terminal and the negative terminal of the battery pack to each other with any metal object, such as a wire.
- DO NOT carry or store the battery together with necklaces, hairpins, or other metal objects.
- DO NOT pierce the battery with nails, strike the battery pack with a hammer, step on the battery, or otherwise subject it to strong impacts or shocks.
- DO NOT expose the battery to water or saltwater or allow the battery to get wet.
- DO NOT place the battery in or near flames, on stoves, or other high-temperature locations.

- DO NOT place the battery in direct sunlight or use and store the battery inside hot cars in hot weather.
- Doing this may cause the battery to heat, explode, or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
- DO NOT disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.
- Immediately discontinue the use of the battery if, while using, charging, or storing the battery, it emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.
- DO NOT place the battery in a microwave oven, high-pressure container, or induction cooker. If the battery leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage in the eye.
- If the unit or parts of this unit are being transported or freighted, seek advice on the correct protocol for handling and notification of the Li-ion batteries from your shipping agent.

12. MANUFACTURER'S WARRANTY TERMS AND CONDITIONS

1) Global Tech China Limited and Sunsynk Limited (from now on “the Company”) now warranty against manufacturing faults of the products for two years under the following terms and conditions:

- a) The product must be purchased and installed within one of the following countries: The United Kingdom, the Isle of Man, the Channel Islands, South Africa, Zimbabwe, Botswana, Hong Kong, and Australia. Products purchased and/or installed outside of these countries will not be covered by this warranty under any circumstances.
- b) The product must be installed and commissioned in full compliance with the installation instructions provided with the product packages. The product must also meet the requirement of the Benchmark initiative (if applicable).
- c) The warranty period will commence from the date of installation. However, if the installation is made after more than six months from the date on which the product was dispatched by the company, the warranty period will commence immediately after six months from the date of manufacture.
- d) The product must be confined to domestic or light commercial use only. For this warranty, “light commercial use” is referred to as a semi domestic-commercial environment including but not limited to hair salons, small shops, pubs). Should confusion arise regarding the determination of “light commercial use” the decision on the determination of the company will be final.
- e) The product must be well-maintained following the User Manual guidelines. Failure to maintain the product, poor servicing, or no servicing of the products might invalidate this

warranty. Proof of service by competent servicing centers might be required to obtain warranty facilities.

f) During the warranty period, the product must not be serviced, repaired, or altered in by any third party. Any change, alteration, modification, or servicing whatsoever from anyone other than the company will invalidate the warranty with full effect.

g) Following the servicing, repairment, or replacement, any parts or products removed from your product will be taken as owner by the company. You will not have any claim for such parts or products.

2) Warranty Limitations

This warranty does not include:

a) Any condition resulting from other than ordinary residential wear or any use for which the product was not intended, such as use in rental or contract trade or commercial use;

b) Any condition resulting from incorrect or inadequate maintenance or car;

c) Damage resulting from misuse, abuse, negligence, accidents, theft, tempering, flood, explosion, lightning, storms, frost, shipping damage, adverse weather or any other similar event;

d) Dissatisfaction due to buyer's remorse;

e) Normal wear and tear;

f) Damages incurred during transportation;

g) Damages incurred during assembly or maintenance (unless assembly or maintenance has been carried out by the company);

h) Any unauthorized adjustments made to the product by a third party;

3) The company makes no express warranty or condition, whether written or oral, and the company expressly disclaims all warranties and conditions not stated in this limited warranty. The company disclaims all implied warranties or conditions, including any implied warranties of merchantability and fitness for a particular purpose.

4) All warranty claims must be filed by the consumer to the retailer of this product, who in turn is to contact the manufacturer regarding any warranty return or replacement. The company will not handle claims from the consumer directly. Please retain invoices for obtaining warranty facilities.

5) All claims under this Warranty Statement must be made within the warranty period.

6) The decision of the company regarding any issue relating to this warranty statement is final.

For more information, training videos, software upgrades, help line, forum please refer to <http://www.sunsynk.com> - Tech Support (Do not forget to register first on the website).



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Audio Training manuals on Apple Pod Cast and Spotify
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