

Power XP SKA 1000 / 1500

OPERATION MANUAL

power^{XP}



Congratulations and thank you for your purchase of an Power XP SKA 1000 / 1500 series Portable Power Station. Both the SKA 1000 and the SKA 1500 units are designed to give you many years of reliable service, providing power where you need it, whenever you need it.

Please take some time to familiarize yourself with the safe operation of these powerful units. Your time invested here will assure years of hassle-free performance.

TAKE A TOUR

Take a moment and locate the various inputs and outputs found on your unit and illustrated below.



- 1. USB-A 18W X 2
- 2. SOLAR PANEL INPUT
- 3. AC ADAPTER INPUT
- 4. USB-C 60W X 2
- 5. USB BUTTON
- 6. DISPLAY SCREEN
- 7. TOUCH SENSING
- 8. AC EXCHANGE BUTTON
- 9. DC5521 X 2
- 10. CIGAR SOCKET
- 11. DC BUTTON

At the heart of your Power XP Portable Power Station, are the Lithium Iron Phosphate power cells that comprise the battery pack. Protected and regulated by a sophisticated BMS battery management system, coupled with a DC control module and inverter, is housed in a high-strength aluminum alloy shell. Even the limited plastics used on the case are fire resistant to UL 94 standards, rated V-0.

The unit is protected by a robust self-contained security system that includes; a state of the art Battery Management System (BMS).

The result is a strong, safe, lightweight and powerful source of power for your life!



- 12. HANDLE
- 13. AC OUTPUT X 2

GETTING STARTED

Unpack your Power XP Portable Power Station. In addition to this manual, you will see the following packaged with your unit.



ADAPTER (STANDARD)



POWER CORD (STANDARD)



MC4 TO ANDERSON CABLE (STANDARD)



CAR CHARGER

CHARGE UP

First, check the charge state of your new unit. Simply press the AC On/Off button and the screen will light up with the percentage of charge stored in the unit. For safety in transport, the units are charged to no more than 30% of capacity when leaving the factory, so your first step is to fully charge your power station.

You can accomplish this through using the standard AC wall charger that plugs into any standard wall outlet and into the 4-pin plug on the units' face, marked "In". If you purchased solar panels, you can connect them to the Anderson connectors on the units face using the conversion cable supplied. The MC4 plug will interface with virtually any solar panel. For faster charging, you can hook up multiple solar panels simultaneously, (up to 500W) using the optional solar expansion cable and additional solar 4 panel kits available at www.power-xp.com.

You can also charge the unit using the car adapter that will plug into your vehicle's utility port. (Best if your vehicle is running to avoid draining your vehicle battery)

You can charge your unit with either solar panels or the car charger while you are using it!

Adapter Charging



Solar Charging



Car Adapter Charging



CONTROL DISPLAY PANEL

The easy-to-read LED control panel gives you real time status information about your unit. Through this screen you can view; percentage of available battery power, input power wattage level from the charging selected, output power displayed in watts, the AC power frequency, DC output status, the unit's temperature, and the solar status if you have attached solar panels.

NIGHT VISION

A fantastic feature of these units is the Night Vision mode. At night, it is now easy to check the unit's status by simply placing the palm of your hand across the screen.

The unit will "see" you and turn on the lighting on the front panel. This eliminates searching for power buttons in the dark. The light will remain on for 30 seconds and turn off if nothing is plugged in and no controls were turned on to work.

Plug a device in, select an output and the light will dim. When you are finished, simply click the power button in use and the unit will turn off both the power and the light.



OUTPUT SECTION | AC

On the back panel of your unit, you will see two standard 3 pin AC outlets. These access the pure sine wave AC power the unit delivers. Before you plug in and go, here is a word about frequency. Without going into minute detail, you should know this basic information.

Here in North America, our AC (Alternating Current) is delivered to us at 60 cycles per second, or 60 Hz (Hertz). Nearly all the devices we use operate on that 110V 60Hz. In many other countries where 220V or 240V is what is delivered, a lower HZ rating of 50HZ is used. Your unit is versatile, it can do both!

The factory setting for the North American models is 110V 60Hz. Before plugging in, verify that this is the case on the screen. It's easy to check, simply press the AC on/off button, and the AC frequency will show in the upper right-hand portion on your screen. It is very important for proper operation of your devices that this setting is accurate.

If you need to change the frequency and voltage setting, follow these simple instructions.

- 1. With nothing plugged in, press the AC ON/OFF button and hold for 10 seconds. The AC function will turn off.**
- 2. Release the button and depress it again. Your new setting will appear on the screen.**

If your power station detects and abnormal conditions, overload, faulty cables, short circuit or overheating, the protections mode will automatically kick in and shut the unit down. Should this occur, remove the devices from the unit and it will function normally. (Identify and eliminate any abnormality.)

Now you are ready to plug in whatever device you like according to the parameters of your device. Remember, you can charge your unit from Solar panels or the car charger while you are using it!

OUTPUT SECTION | DC

Your Power XP Portable Power Station offers two distinct DC output selections; USB which has two USB Type A sockets and two USB Type C sockets that can be used simultaneously, and the DC 12V 120W outputs that feature two standard DC sockets and one utility type socket. Each section has its own ON/OFF switch.

While the USB side is set up for your mobile phones and tablet type devices, the DC 12V side is specifically geared for applications associated with 12V batteries. Any device or appliance designed to run in your car, truck, or RV that needs 12V can be powered here. Use the optional Alligator Car Cable to charge your car, boat, or lawn tractor battery. It is available at www.powerhouse2.com along with all other available accessories.

TEMPERATURE CONTROL SYSTEM

One of the many internal intelligent protection systems built into your unit is temperature control. As you know, one of the byproducts of generating power is heat. It is completely normal and safe. Should the internal temperature of the unit exceed 45°C (113°F), the internal cooling fan will turn on to circulate air through the unit, cooling it down. When you hear the fan turn on or off, it is part of normal operation. You will see the unit's temperature readout on the display screen.

Technical Data



		SKA1500	SKA1000
Battery	System Battery Voltage	28.8V	22.4V
	Battery Type	LiFePo4	LiFePo4
	Cycle Life	6000 Cycles	6000 cycles
	Capacity	48 Ah	48 Ah
AC Output	Continuous Output	1500 Watt	1000 Watt
	Peak Output	3000 Watt	2000 Watt
	Output Voltage	110V or 220V	110V or 220V
	Frequency Range	50Hz/60Hz Switchable	50Hz/60Hz Switchable
	Watt Hour	1380 WH Pure Sine Wave	1075WH Pure Sine Wave
Input	Voltage	36 VDC	32 VDC
	Solar	18-80 VDC 500W max.	18-80 VDC 500W max.
Weight		33 lbs.	24 lbs.
Temperature Range		-4°F to 104°F	-4°F to 104°F

IMPORTANT REMINDERS

The Power XP SKA 1000 and SKA 1500 Portable Power Stations are powerful electrical storage modules. Improper usage risks electric shock or injury. Follow all directions when using these units.

1. Please read and retain this instructional manual.
2. This device is for adult use only. Not for use by children. Adult supervision is required when children are present.
3. Do not insert any foreign objects into or attempt to open this device.
4. Use only recommended and compatible accessories with these units or risk personal injury, shock or fire.
5. Do not modify or tamper with the battery pack.
6. Do not use any frayed or broken cables with this unit.
7. Do not disassemble this unit. Contact Powerhouse Two if service is required. Opening the unit will void the warranty.
8. In the event of a malfunction, disconnect all cables from the unit.
9. Store and operate the unit in a clean, dry, temperature-controlled environment. Avoid high humidity and moisture.
10. If the unit is to be stored for long periods of time, charge and discharge the unit every 3 months to ensure proper service life.
11. People who have implanted pacemakers should avoid direct contact with Battery Power Stations and chargers to avoid the unlikely event of signal disruption. Cell phones, power stations, and any electromagnetic devices should be kept a minimum of 6 inches away from a pacemaker.
12. If abused, it is possible that liquid could leak from the battery pack. Should this occur, do not touch. If it comes in contact with your skin, wash with soap and water. Seek medical attention if eye contact occurs.
13. Do not use flammable gases or liquids, such as pesticides, alcohol, gasoline etc. near the machine to avoid possible fire hazard.

POWER XP

LIMITED WARRANTY

This product is guaranteed to be free from manufacturing defects for a period of one year from the date of purchase to the original purchaser. For warranty service, contact Powerhouse Two Inc at service@powerhb.com

The warranty does not cover damage to any equipment failures attached to the unit or any damage from improper use or abuse. Warranty coverage is limited to repair or replacement of the machine provided it meets the requirements set forth herein. We assume no responsibility for external device performance or lack thereof.

The company can provide paid battery replacement service once the unit reaches the end of its service life. Contact service@powerhb.com for information.



POWERHOUSE TWO

YOUR PARTNER IN POWER.