Smart Expansion Battery

B2000

User Manual

SPECIFICATIONS

| Model	B2000			USB-A	5V⎓2.4A 12W
Battery Type	LiFePO4			Type-C	5V⎓3A/9V⎓3A/ 12V⎓3A/15V⎓3A/ 20V⎓5A 100W PD
Capacity	2048Wh 3.2V/640000mAh (51.2V/40000mAh)		Output		
Input	AC(XT60)	Adapter(200W)		Cigarette Lighter Socket	12V⎓10A 120W
	Solar Charging (XT60)	12V-48V/ 10A 200W Max		XT90	48V⎓15A 720W
	Car Charging (XT60)	12V⎓8A 24V⎓8.3A	MPPT Control System	Maximum Power Point Tracking	
	Recharging with BP2000/BP4000		Cycle Life	3500 Cycles	
Discharging Temperature	14°F~104°F /-10°C~40°C (68°F~86°F Recommended)		Charging Temperature	32°F~104°F / 0°C~40°C (68°F~86°F Recommended)	
Dimension	18.7*11.65*9.51Inches		Weight	41 lb /18.6 kg	

WHAT'S IN THE BOX
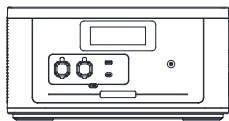
B2000 Smart
Expansion Battery *1

XT60-Car
Charging Cable *1

XT60-MC4 Solar
Charging Cable *1
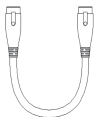
Parallel connection
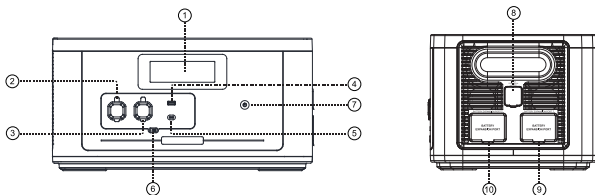Wires *1

User Manual *1

1. LCD Display	6. DC Switch
2. 12V⎓10A Cigarette Lighter Socket	7. Main Power Switch
3. 48V⎓15A XT90 Output	8. XT60 Input 12V~48V 10A Max(200W Max)
4. 5V⎓2.4A USB-A Output	9. Battery Expansion Port 1
5. PD100W USB-C Output	10. Battery Expansion Port 2

Main Power Switch

Press the power button for 3S to switch it on, press it again for 3S to turn it off.
Note: Short press the switch will turn on/off the LCD display. If there is no operations for 30 minutes, the LCD display will be turn off and the power will be switched off automatically.

DC Switch

1.Press and hold the main power switch for 3 seconds to turn on the power station. Short press the DC button to switch the DC/USB output ports on. Short press it again to switch the DC/USB output ports off.
2. Check the remaining battery power. If the remaining battery level is less than 10%, please recharge the battery.
3. Connect the device to the DC cigarette lighter socket, 48V XT90 Output.

Note:
* When the DC output port is not in use, please turn off the DC output switch to save power.

XT60 Input Port Recharging
1, From AC Wall Outlet
•Connect the plug of adapter to the wall outlet, the other side to the XT60 input port, it will automatically charging even if the power is off.
•When charging, the LCD screen indicates the percentage of remaining power, the battery indicator blinks. It also indicates XT60 input, input power and estimate fully charged time.
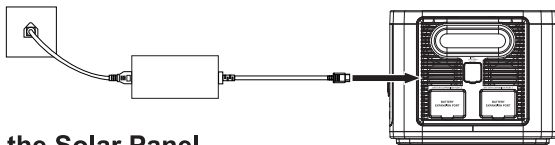

2, From the Solar Panel
• Put the Solar Panel(not included) outside under the sunshine.
• Connect the solar panels(in series or parallel) with open circuit voltage range 12V-48V.
• The max input current of solar charging is 10A and the max input power is 200W. Even if the power is over than 200W, it will input 200W at most, but if the input power is not between 12V-48V, it can not be charged.

Attentions:
• Connect the plug of MC4 to the solar panel.
• Connect the XT60 to the input port, it will automatically charging even if the power is off.
• When charging, the LCD screen indicates the percentage of remaining power, and the battery indicator blinks. It also indicates XT60 input, input power and estimate fully charged time.
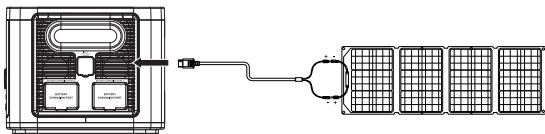

3, Car Charging
• With the included XT60-Car Charging Cable, connect the B2000 to the cigarette lighter port of the car via the car charging cable.
• When charging, the LCD screen indicates the percentage of remaining power, the battery indicator blinks. It also indicates XT60 input, input power and estimate fully charged time.

4, BP2000/BP4000+B2000 Smart Expansion Battery

• Connect the B2000 expansion battery with BP2000/BP4000, then connect the BP2000/BP4000 with wall outlet. The max input power is 1800W to charge the B2000/BP4000 and B2000 battery.
• Use the parallel cable to connect the Battery Expansion Port of BP2000/BP4000 to the Battery Expansion Port 1 of B2000, then connect the Battery Expansion Port 2 of B2000 to the Battery Expansion Port 1 of another B2000.
• The LCD display the remaining power and status.

LCD DISPLAY
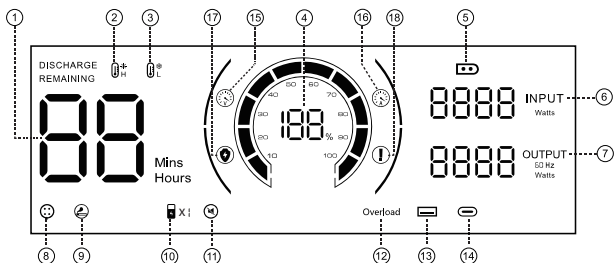
1. Charge/Discharge Remaining Time	10. Battery Expansion Icon
2. High Temperature Alert	11. Silent Mode
3. Low Temperature Alert	12. Overload Protection
4. Power Percentage	13. USB A Output
5. XT60 Input	14. USB C Output
6. Total Input Power	15. Voltage Protection
7. Total Output Power	16. Current Protection
8. 48V XT90 Output	17. Short Circuit Protection
9. Cigarette Lighter (12V) Output	18. Battery Pack Protection

1, When the LCD screen shows 🔋, it means the BP2000 + B2000 connects correctly.

2, When the B2000 connected with BP2000 and the LCD screen show 🔋x↓, it means the BP2000 + B2000 connects correctly, and can recharge and discharge mutually.

Note:
When connect the BP2000 with B2000, if the remaining power is less than 5%, they cannot be paralleled (because the battery voltage gap is large). However when you connect the input power source, you can activate successfully and recharge the BP2000 and B2000.

Normally, after the BP2000 and B2000 are connected, the high battery device will automatically charge the low battery.

However, if one of the devices is below 5%, the system will determine that the voltage gap is too large and cannot be connected successfully.

At this time, when you connect the input power source, you can activate successfully and recharge the BP2000 and B2000.

Expand with the BP2000/BP4000 Power Station

• BP2000/BP4000 can connect up to 7 expansion batteries at the same time, which can expand the capacity up to 16384Wh .

• After connected the BP2000/BP4000 and B2000, long press the main power button on BP2000/BP4000 or B2000, it can power ON both the BP2000/BP4000 and B2000.

• Short press the main power button, the LCD screen will be off, and the indicator will blinks.

Connection Notes:

1. Before connecting the B2000 expansion battery, please make sure that the power of both BP2000/BP4000 and B2000 are turned off.

2. After connecting the B2000 expansion battery, please make sure that both the BP2000/BP4000 and B2000 screens display the parallel power icon before use it.

3. Before connecting/disconnecting the B2000 expansion battery, please turn off the B2000 firstly.

4. Do not touch the metal terminal of the wire with your hands. Wipe it with a dry cloth.

5. Please ensure that the parallel wires are tightly connected to the parallel ports of the BP2000/BP4000 power station and B2000 expansion battery. Improper connections may cause heat at the connection terminals, affecting the use of the device and possibly causing a fire.

6. If you need to charge the BP2000/BP4000+B2000, please connect the BP2000/BP4000 to the wall outlet/ solar panel to charge. If the B2000 expansion battery is separately connected to the AC adapter/solar/car charger, please disconnect the B2000 before connecting to the BP2000/BP4000.
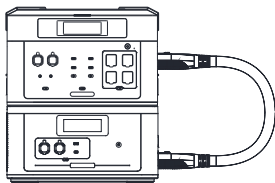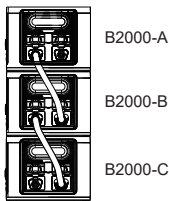

1, BP2000/BP4000+B2000 Expansion battery pack
In this case, the input and output of the B2000 expansion battery will be stopped, only for capacity expansion.

1) Input: The B2000 expansion battery will not be charged even if it is connected to the AC adapter, Solar/car charging board.

2) Output: 12V/48V/USB output port on the B2000 expansion battery is also unavailable.

BP2000/BP4000
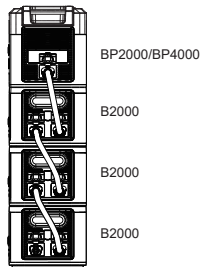
B2000

B2000

B2000

2, BP2000/BP4000 Expansion battery pack

In this case, the input and output of the B2000 expansion battery A is normal to use. B2000 expansion battery B and C input and output will be stopped, only for capacity expansion.

B2000-A

B2000-B

B2000-C

TROUBLESHOOTING

Error	Reason	Solutions
🌡️☀️ H	The internal temperature of the device is high.	Let the device sit and cool before restarting. Recommended temperature 68 °F~86 °F (20°C~30°C)
🌡️❄️ L	The internal temperature of the device is low.	Use the device in a normal temperature environment. Recommended temperature 68 °F~86 °F (20℃~30℃)
⏱️V	Voltage protection. Overvoltage has occurred at the internal battery or PV input.	Disconnect the input terminal, check that the voltage on the input terminal is within the allowable range, and then reconnect.
⏱️A	Current protection. A BMS charge/discharge overcurrent has occurred.	Disconnect the input terminal and turn off the power, then reconnect it. Disconnect the output terminal, and turn on the power, then reconnect it.
⚡	Short circuit protection. A BMS failure has occurred.	Please contact customer service at support@oukitelpower.com
❗	Battery pack protection. A battery pack failure or BMS communication error has occurred.	Please contact customer service at support@oukitelpower.com

When the icon blinks	Reason	Solutions
🔌 🔋 🔌	An error has occurred in the output.	Check the load of the connected device. Check the connection with the output terminal.

FAQ

1. Why is there a noise when using it?
The noise comes from the fan or the relay when you start or using it.

2. Is it normal the charging cable heat up during use?
Yes, it is. The charge cable complies with national safety standards and has passed the certification.

3. How can we know the remain discharge time?
Please check the data on the LCD screen, it will show the remain discharge time when you turn on.

4. How can we confirm the product is charging?
When the product is under charging, the product screen will show the input wattage, and the power percentage indicator will blink.

5. How should we clean the product?
Please use a dry, soft, clean cloth or tissue to wipe the product.

6. How to storage?
Please turn off the product and place it in a dry environment. Do not place this product near water.
For long-term storage, we recommend to use the product every three months(Run out the remain power first and recharge it to the percentage you want, such as 50%).

MAINTENANCE

1.It is recommended to use or store this product in an environment of 68 °F (20°C) to 36 °F (30°C), keep it away from water, heat, and other metal objects.
2.For safety reasons, please do not store this product in an environment higher than 113 °F (45°C) or lower than 14 °F (- 10°C) for a long time.
3.If it is not used for a long time, please charge it to 60% before storing. If the battery is left unused for a long time when the battery is seriously insufficient, it will cause irreversible damage to the battery and shorten the cycle life of the product.

WARRANTY

The product is with a 1-year warranty from the date of purchase (damages from normal wear and tear, alteration, misuse, neglect, accident, service by anyone other than the authorized service center, or act of God are not included).

During the warranty period and upon verification of defects, this product will be replaced when returned with proof of purchase.

CUSTOMER SUPPORT

If you need help regarding product issues, after-sales service, or other relevant problems, please contact us via email: support@oukitelpower.com, and provide the following information:
● Order ID
● Problem description

E-mail: support@oukitelpower.com
Website: http://oukitel.com

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