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› OUKITEL BP2000+B2000 Solar Generator User Manual

OUKITEL BP2000

OUKITEL BP2000+B2000 Solar Generator User Manual

Model: BP2000 (with B2000 Expansion Battery)

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your OUKITEL BP2000 Solar Generator with the B2000 Expansion Battery. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.



Figure 1: OUKITEL BP2000 Power Station with B2000 Expansion Battery

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the product:

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Ensure proper ventilation during use and charging.
- Do not expose the unit to water or excessive humidity.
- Use only OUKITEL-approved accessories and charging cables.
- Keep out of reach of children and pets.

3. PRODUCT OVERVIEW

The OUKITEL BP2000 is a versatile solar generator designed for various power needs, from emergency home backup to outdoor activities. When combined with the B2000 expansion battery, its capacity is significantly increased.

Key Features:

- **High Capacity:** 2048Wh (BP2000) expandable to 4096Wh (BP2000+B2000) and beyond.

- **Powerful Output:** 2200W AC output, capable of powering up to 15 devices simultaneously.
- **Fast Charging:** Fully charges in 1 hour with combined AC and solar input.
- **Durable Battery:** LiFePO4 battery with over 3500 cycles, offering a long lifespan.
- **UPS Functionality:** Provides reliable backup power with a 0.01s switchover time.

POWER UP TO 15 DEVICES

More Ports Than You'll Ever Need



DC Output

6 USB Ports



USB-C×2

200W



USB-A×2

12W



USB-QC3.0×2

36W

4 DC Outlets



DC×2

36W



Car Outlet

120W



Aviation Port

240W

AC Output

5 AC Ports



AC×5

2200W

Figure 2: Output Ports and Device Connectivity

4. SETUP

Initial Unpacking:

1. Carefully remove the BP2000 and B2000 units from their packaging.
2. Inspect both units for any signs of damage. If damaged, contact customer support immediately.
3. Ensure all included accessories (charging cables, user manual) are present.

Connecting the B2000 Expansion Battery:

To expand the capacity of your BP2000, connect the B2000 expansion battery as follows:

1. Place the B2000 unit on a stable, flat surface.
2. Carefully place the BP2000 unit on top of the B2000 unit, aligning the connection ports.
3. Connect the provided expansion cable between the BP2000 and B2000 units. Ensure a secure connection.
4. The BP2000 will automatically detect the connected B2000 battery.

EXPANDABLE BATTERY

Flexible Capacity for Versatile Scenarios

2048WH to 16348WH

BP2000+1xB2000=4096Wh

BP2000+2xB2000=6144Wh

BP2000+3xB2000=8192Wh



Figure 3: Expandable Capacity Configuration



Expandable Capacity

Up to 16kWh with 7 Extra Batteries



Figure 4: Visual Guide to Capacity Expansion

5. OPERATING INSTRUCTIONS

Powering On/Off:

- To power on the unit, press and hold the main power button for 3 seconds. The display will illuminate.
- To power off, press and hold the main power button for 3 seconds until the display turns off.

Using AC Outputs:

1. Ensure the unit is powered on.
2. Press the AC output button to activate the AC outlets. The AC indicator on the display will light up.
3. Plug your AC devices into the available outlets.
4. To turn off AC output, press the AC output button again.

Using DC and USB Outputs:

1. Ensure the unit is powered on.
2. Press the DC output button to activate the DC and USB ports. The DC indicator on the display will light up.
3. Connect your DC or USB devices.
4. To turn off DC/USB output, press the DC output button again.

Uninterruptible Power Supply (UPS) Function:

The BP2000 can function as an Uninterruptible Power Supply (UPS) for critical devices. When connected to a wall outlet and devices are plugged into the AC outputs, the unit will pass through grid power. In case of a power outage, it will automatically switch to battery power within 0.01 seconds.

UPS RELIABLE BACK UP

Stay Powered on with an Emergency Power Supply

BP2000 automatically jumps into action within 0.01s



Figure 5: UPS Functionality in a Workshop Setting

6. CHARGING METHODS

Your OUKITEL BP2000+B2000 system supports multiple charging methods:

AC Wall Charging:

- Connect the AC charging cable to the AC input port on the unit and then to a standard wall outlet.
- The unit supports adjustable AC charging from 600W (slow) to 1800W (fast).
- A full charge can be achieved in approximately 1 hour when combined with solar input.

Adjustable AC Charging



Figure 6: Adjustable AC Wall Charging

Solar Charging:

- Connect compatible solar panels (up to 1000W) to the solar input port on the unit.
- Position solar panels in direct sunlight for maximum efficiency.
- The unit can be fully charged via solar in approximately 2.5 hours under optimal conditions.

Solar Charging

UP to 1000W, Fully Charged in 2.5Hours



Figure 7: Solar Charging Setup

Super Quick Charge

Fully Charge in 1 Hours, 1500W AC+1000W Soalr Input

BP2000

1 Hour

Other

3 Hours



Figure 8: Super Quick Charging Capabilities

7. MAINTENANCE

Battery Care:

- For optimal battery life, store the unit in a cool, dry place between 0°C and 40°C (32°F and 104°F).
- If storing for extended periods, charge the battery to 50-80% every 3-6 months.
- Avoid fully discharging the battery frequently.

ULTRA LONG LIFESPAN

LiFePO₄ Battery for 10 Years of Use



LiFePO₄



3500+

10 YEARS

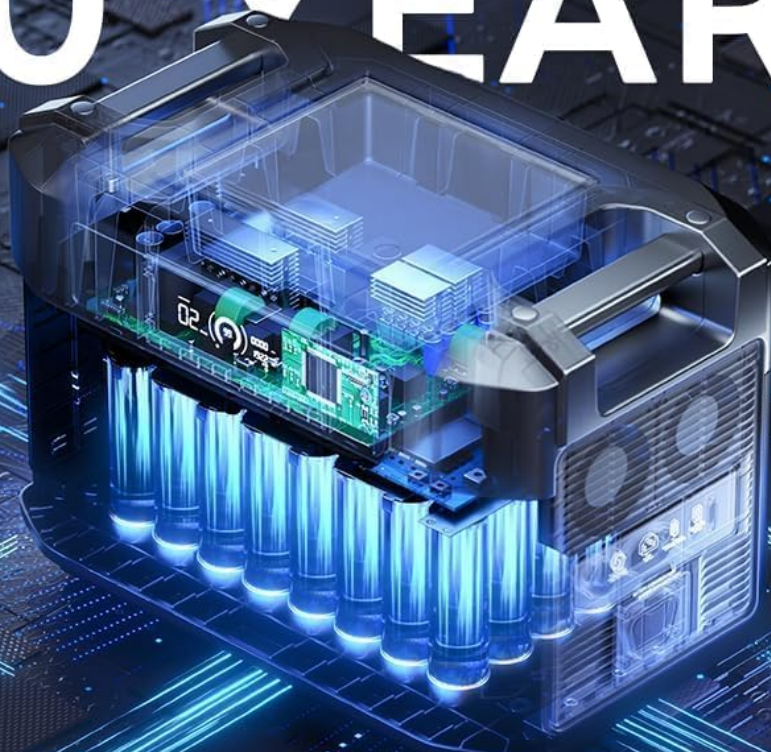


Figure 9: LiFePO₄ Battery Lifespan

Cleaning:

- Use a dry, soft cloth to wipe the exterior of the unit.

- Do not use abrasive cleaners or solvents.
- Keep ventilation openings clear of dust and debris.

8. TROUBLESHOOTING

If you encounter issues with your OUKITEL BP2000+B2000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Battery fully discharged; Power button not held long enough	Charge the unit; Press and hold the power button for 3 seconds
AC output not working	AC output not activated; Overload protection triggered	Press the AC output button; Reduce connected load, restart unit
Unit not charging	Charging cable loose/damaged; Input source issue	Check cable connections; Verify wall outlet/solar panel functionality
B2000 not detected	Expansion cable loose/damaged; Incorrect connection	Ensure expansion cable is securely connected and aligned

For further assistance, please contact OUKITEL customer support.

9. SPECIFICATIONS

Feature	Specification
Brand	OUKITEL
Model Name	BP2000
Style	BP2000+B2000
Wattage (BP2000)	2048 Watt-hours
Wattage (BP2000+B2000)	4096 Watt-hours
Output Wattage	3600W (Peak 4000W)
Voltage	120 Volts
Fuel Type	Solar
Power Source	Battery Powered
Item Weight	55 Pounds (BP2000 unit)
Product Dimensions	18.5"L x 11.5"W x 12.5"H (BP2000 unit)
Special Feature	Portable, UPS Functionality
Included Components	Charger

10. WARRANTY AND SUPPORT

Warranty Information:

OUKITEL provides a **two-year warranty** from the date of purchase for free repairment. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

Customer Support:

For any questions, technical support, or warranty claims, please contact OUKITEL customer service. You can find contact information on the official OUKITEL website or through your purchase platform.

- **Return/Replacement Policy:** Eligible for return/replacement within 30 days of purchase.
- **Repair Service:** Free repairment within two years from the order date. Typically completed within 1-2 weeks.
Note: Water damage due to deliberate human factors is not covered.
- **Service Area:** Repair services are available in the USA and Western Europe.