

BigBoss PowerBox

Your Powerhouse in a Box

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1. Introduction

Thank you for choosing the BigBoss PowerBox, your 12V battery-powered charging and LED illumination system. The included 24W solar panel is designed to maintain and charge your external LiFePO₄ battery, ensuring your devices stay powered even during extended outdoor use.

BigBoss Outdoors **recommends a 12V 10Ah LiFePO₄ battery** for optimal performance. You may use a battery up to 15Ah if desired.

Do not use any other battery type. Using another battery voids the limited warranty.

2. Operating Instructions

Step 1: Prepare the Battery

1. Use a **12V LiFePO₄ battery, recommended 10Ah, maximum 15Ah.**
2. Verify the battery is in good condition, with no visible damage or leakage.
3. Make sure the battery terminals are clean and dry.

Step 2: Connect the Battery to the PowerBox

1. Turn the PowerBox main power switch **OFF** before connecting the battery.

2. Connect the **red lead to the positive (+) terminal** of the battery.
3. Connect the **black lead to the negative (-) terminal** of the battery.
4. Ensure the connections are secure and tight.
5. **Do not use any other battery type. Using another battery voids the limited warranty.**

Step 3: Power On

1. Turn the main power switch **ON**.
2. The power indicator light will illuminate, confirming that the PowerBox is receiving power from the battery.

Step 4: Connect Devices

1. Plug in your USB or USB-C devices to the PowerBox output ports.
2. Check that your device shows charging or active power.
3. Only connect devices that draw power within the USB / USB-C output limits. **Do not** connect high-draw tools or equipment.

Step 5: Using the LED Lights

1. Press the LED button to turn on the built-in LED lights.
2. Adjust or swap out the lights if using optional White or Green LED models (refer to the LED section).
3. Avoid looking directly at the LED lights when powered on.

Step 6: Using the Solar Panel

1. Connect the 24W solar panel cable to the PowerBox solar input if you want to maintain or charge the battery.
2. Place the solar panel in direct sunlight and angle for maximum exposure.
3. The solar charge indicator light will illuminate when charging.
4. Disconnect the solar panel before moving the PowerBox or performing maintenance.

Step 7: Power Down and Disconnect

1. **When finished, turn the main power switch OFF.**
 2. **Disconnect all USB or USB-C devices.**
 3. **If the PowerBox will not be used for an extended period, disconnect the battery from the terminals.**
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3. Safety Information

General Safety

- Use only a **12V LiFePO₄ battery, recommended 10Ah, maximum 15Ah.**
- **Do not use any other battery type. Using another battery voids the limited warranty.**
- Do not expose the PowerBox to rain, water, or liquid spills.
- Humidity will not affect performance, but connectors must remain dry.
- Only connect USB or USB-C devices, not tools or high-draw equipment.
- Verify polarity (red = positive, black = negative).
- Do not disassemble or modify the PowerBox.
- Keep away from flames and excessive heat.
- Operate under adult supervision.

Solar Panel Safety

- The 24W solar panel is used to maintain and charge the battery, not to power devices directly.
- Mount the solar panel securely to a sturdy, permanent surface using the included screws.
- Place the panel where it receives maximum sunlight.
- The panel produces live voltage when exposed to sunlight; handle carefully.
- Disconnect before moving or storing.
- Clean only with a soft, dry cloth.

Battery Safety

- Use only a **12V LiFePO₄ battery, recommended 10Ah, maximum 15Ah.**
- Confirm polarity before connecting.
- Charge in a ventilated area.
- Disconnect immediately if overheating, smoke, or odor occurs.
- Disconnect the battery if the PowerBox will not be used for an extended period of time.
- Refer to your batteries owner manual for further information regarding safety.
- **Do not use any other battery type. Using another battery voids the limited warranty.**

4. Product Overview

Main Features

- 12V DC output for USB / USB-C devices only
- Integrated LED illumination
- 24W solar panel for battery maintenance
- Built-in overload and reverse polarity protection
- Optional MagSafe charger (if purchased)
- Optional White or Green LED lights (available for purchase)
- Durable design

Package Contents

- 1 × BigBoss PowerBox
- 1 × 24W Solar Panel
- 4 × Mounting Screws for the PowerBox
- 4 × Mounting Screws for the Solar Panel
- 1 × Optional MagSafe Charger (included only if purchased)
- Optional White or Green LED Lights (available for purchase separately)
- Battery Not Included

5. Battery Compatibility

- Recommended: **12V 10Ah LiFePO₄ battery** (optimal)
- Maximum: **12V LiFePO₄ battery up to 15Ah**
- Connect red lead to positive (+), black lead to negative (–)
- Ensure secure connections before powering on
- **Do not use any other battery type. Using another battery voids the limited warranty.**
- Using other battery types (lead-acid, AGM, lithium-ion, or any non-LiFePO₄ chemistry) may cause malfunction or damage.

6. Solar Panel Setup & Battery Maintenance

The solar panel is designed to maintain and charge your external battery, not to power devices directly.

Solar Panel Installation

1. Select a sturdy, permanent surface for mounting.
2. Secure the solar panel using the provided screws.
3. Angle the panel for maximum sunlight exposure.

Connecting & Maintenance

1. Connect the solar panel cable to the PowerBox solar input.
2. Connect your **12V LiFePO₄ battery, recommended 10Ah, maximum 15Ah**, to the PowerBox terminals.
3. The charge indicator light will show when the battery is being maintained or charged.
4. Disconnect the panel before performing maintenance or storing.

Notes:

- Devices always draw power from the battery.
 - Keep all connectors clean and dry.
 - Never expose the PowerBox or connectors to rain or liquid.
 - If the system will not be used for an extended period, disconnect the battery from the PowerBox.
 - **Do not use any other battery type. Using another battery voids the limited warranty.**
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7. LED Lighting & Interchangeable Lights

The BigBoss PowerBox features built-in LED illumination and allows you to swap out lights for optional models available through BigBoss Outdoors.

Customers may choose between White or Green LED lights, available for separate purchase.

Safety

- Ensure the PowerBox is powered OFF before changing lights.
- Disconnect the battery before handling wires or removing lights.
- Handle screws and connectors carefully to avoid damage.

Using the LEDs

- Press the LED button to toggle illumination on or off.
- The LED is powered by your connected battery.
- Suitable for camping, workspace, or emergency lighting.

- Avoid looking directly at the LEDs when on.

Steps to Replace Lights

1. Disconnect the **positive wire** from the quick-connect terminal by lifting the green tabs. Be careful to avoid removing the main power (center black wire).
2. Disconnect the **negative wire** from the quick-connect terminal by lifting the green tabs. Be careful to avoid removing the main power (center red wire).
3. Unscrew the **nut from the back of the light** to remove the installed light.
4. Install the optional White or Green lights purchased from BigBoss Outdoors.
5. Reconnect the **positive and negative wires** exactly as removed.
6. Secure new lights with the original screws.
7. Reconnect the battery and test the lights to confirm proper operation.

Note: Only use compatible lights provided or approved by BigBoss Outdoors.

8. Maintenance & Care

- The PowerBox is not waterproof; avoid rain, spills, or immersion.
- Humidity will not affect performance, but connectors must remain dry.
- Clean with a dry or slightly damp cloth.
- Inspect all cables and connectors regularly.
- Recharge your **12V LiFePO₄ battery, recommended 10Ah, maximum 15Ah**, every 2–3 months if unused.
- Disconnect the battery if the PowerBox will not be used for an extended period.
- **Do not use any other battery type. Using another battery voids the limited warranty.**
- Store in a cool, dry, ventilated location.

9. Troubleshooting

Issue	Possible Cause	Solution
No power output	Battery not connected or low	Check battery and connections
LED not lighting	LED switch off or battery low	Turn on LED or recharge battery

Issue	Possible Cause	Solution
Solar panel not charging	Weak sunlight or loose connection	Recheck mounting and cable connections
Devices not charging	Device draws too much power	Connect only USB or USB-C compatible devices
Battery not charging from solar	Cloudy weather or faulty cable	Ensure full sunlight and check connectors

10. Customer Support

For assistance with your BigBoss PowerBox, contact:

Email: BigBossOutdoors@gmail.com

Website: <http://www.BigBoss-Outdoors.com>

BigBoss PowerBox – Your Powerhouse in a Box

Battery-powered. Solar-maintained. USB/USB-C ready.

Recommended Battery: 12V 10Ah LiFePO₄ (optimal). Maximum: 12V LiFePO₄ 15Ah.

Do not use any other battery type. Using another battery voids the limited warranty.

Disconnect the battery if not in use for an extended period.