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## AsperX AX2500

# AsperX AX2500 Car Jump Starter User Manual

Model: AX2500

## INTRODUCTION

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Thank you for choosing the AsperX AX2500 Car Jump Starter. This device is designed to provide a reliable and safe solution for starting 12V vehicles with dead batteries, and also serves as a portable power bank and LED flashlight. Please read this manual thoroughly before use to ensure proper operation and safety.

## IMPORTANT SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the device or vehicle:

- Do not attempt to jump start a vehicle if the jump starter or cables are damaged.
- Ensure proper polarity when connecting the jumper cables to the vehicle battery. Incorrect connection can cause sparks and damage.
- Do not allow the red and black clamps to touch each other once connected to the jump starter.
- Keep the jump starter away from children.
- Do not expose the jump starter to extreme temperatures (above 60°C / 140°F or below -20°C / -4°F) or direct sunlight for extended periods.
- Do not disassemble, modify, or attempt to repair the jump starter.
- Use only the provided smart jumper cables and charging accessories.
- Remove the jump starter from the vehicle battery within 30 seconds after the vehicle starts.

# SAFETY IS THE FIRST PRIORITY

0

SPARK

0

ZERO DAMAGE

10

INTELLIGENT PROTECTION

-4°F/140°F

BEARING TEMPERATURE



*Image: Internal view of the AsperX AX2500 jump starter highlighting its intelligent protection features, including zero spark and zero damage design, and operating temperature range of -4°F to 140°F.*

## PACKAGE CONTENTS

Verify that all items are present in your package:

- AsperX AX2500 Portable Car Jump Starter
- Smart Jumper Cable with Clamps
- USB Type-C Charging Cable
- Storage Case
- Cigarette Lighter Adapter
- User Manual

# WHAT YOU GET



Image: All items included in the AsperX AX2500 jump starter package.

## PRODUCT OVERVIEW

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Familiarize yourself with the components of your AsperX AX2500 jump starter:

# SPECIFICATIONS



- |                           |                                    |
|---------------------------|------------------------------------|
| 1 12V Jumper Cable port   | 2 USB-C Quick Charge Input/ Output |
| 3 USB Quick Charge Output | 4 LED Flashlight                   |
| 5 12V 10A Output          | 6 Power Button                     |
| 7 Power Indicator         | 8 Warning Light Switch             |
| 9 Warning Light           |                                    |

Image: Detailed diagram of the AsperX AX2500 jump starter with numbered labels for each component.

1. 12V Jumper Cable Port
2. USB-C Quick Charge Input/Output (PD 18W)
3. USB Quick Charge Output (USB-A)
4. LED Flashlight
5. 12V 10A DC Output
6. Power Button
7. Power Indicator Lights
8. Warning Light Switch
9. Warning Light

## SETUP AND CHARGING

### Charging the Jump Starter

Before first use, fully charge the AsperX AX2500. It is recommended to recharge the unit every 3-6 months to maintain battery health, even if not used.

1. Connect the provided USB Type-C charging cable to the USB-C Quick Charge Input/Output port (2) on the jump starter.
2. Connect the other end of the USB Type-C cable to a compatible USB wall adapter (not included) or car charger.
3. The Power Indicator Lights (7) will illuminate and flash during charging. All four lights will be solid when fully charged.

The 21000mAh capacity ensures multiple uses and can charge other devices quickly.



Image: The AsperX AX2500 jump starter displaying its various output ports and highlighting its 21000mAh capacity.

## OPERATING INSTRUCTIONS

### Jump Starting a Vehicle

The AsperX AX2500 is designed to jump start 12V vehicles with up to 10L gas or 7.3L diesel engines. Ensure the jump starter is at least 75% charged (3 indicator lights) before attempting a jump start.

1. **Prepare the Vehicle:** Turn off the vehicle's ignition and all accessories (headlights, radio, air conditioning). Engage the parking brake.
2. **Connect Jumper Cables to Jump Starter:** Insert the blue plug of the smart jumper cable into the 12V Jumper Cable Port (1) on the jump starter. Ensure a firm connection. The indicator light on the smart cable should flash.
3. **Connect Clamps to Vehicle Battery:**
  - Attach the **red (+) clamp** to the vehicle's positive (+) battery terminal.
  - Attach the **black (-) clamp** to the vehicle's negative (-) battery terminal or a solid, unpainted metal part of the vehicle's chassis away from the battery.

The smart cable will perform a self-check. If the indicator light on the smart cable turns solid green, it's safe to proceed. If it shows a red light or beeps, check connections for correct polarity or if the battery is too low/damaged.

4. **Start the Vehicle:** Once the smart cable indicator is solid green, start your vehicle's engine.
5. **Remove Jumper Cables:** As soon as the vehicle starts, immediately remove the black (-) clamp from the vehicle, then the red (+) clamp. Disconnect the smart cable from the jump starter.



*Image: The AsperX AX2500 jump starter connected to a vehicle battery using the smart jumper cables, ready for operation. This image also illustrates the wide range of vehicles it can start, including trucks, SUVs, motorcycles, and lawnmowers.*

## Using as a Power Bank

The AsperX AX2500 can charge various electronic devices via its USB-C PD 18W port (2) and USB Quick Charge Output (3).

1. Connect your device's charging cable to the appropriate USB port on the jump starter.
2. Press the Power Button (6) to begin charging. The power indicator lights will show the remaining battery level.

# 21000mAh Huge Capacity Power Bank

Charge There at Once, USB-C PD 18W Quickly Charging



*Image: The AsperX AX2500 jump starter being used to charge a smartphone and a tablet simultaneously, demonstrating its power bank functionality.*

## Using the 12V DC Output

The 12V 10A DC Output (5) can power 12V accessories like car air pumps or vacuum cleaners using the included cigarette lighter adapter.

1. Connect the cigarette lighter adapter to the 12V 10A DC Output port (5).
2. Plug your 12V accessory into the cigarette lighter adapter.
3. Press the Power Button (6) to activate the output.

# 12V 10A DC Outlet

Suitable for tire inflator, car vacuum cleaner, car refrigerator



Image: The AsperX AX2500 jump starter connected to and powering a tire inflator through its 12V 10A DC output port.

## Using the LED Flashlight

The integrated LED Flashlight (4) has four modes: Normal, Strobe, SOS, and Red Warning Light.

1. Press and hold the Power Button (6) for 3 seconds to turn on the flashlight in Normal mode.
2. Press the Power Button (6) briefly to cycle through Strobe, SOS, and Red Warning Light modes.
3. Press and hold the Power Button (6) again for 3 seconds to turn off the flashlight.



Image: The AsperX AX2500 jump starter's LED flashlight in operation, illustrating its various lighting modes for different emergency and utility scenarios.

## MAINTENANCE

- **Storage:** Store the jump starter in a cool, dry place, away from direct sunlight and moisture.
- **Recharging:** Recharge the unit every 3-6 months to maintain optimal battery performance, even if it has not been used.
- **Cleaning:** Wipe the unit with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Battery Care:** Do not overcharge or completely discharge the battery.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Jump starter does not turn on.	Battery is completely discharged.	Charge the jump starter fully.
Smart cable indicator is red or beeps during connection.	Incorrect polarity connection; vehicle battery too low/damaged; clamps not properly connected.	Check and correct clamp connections (red to +, black to -). Ensure clamps are firmly attached. If the issue persists, the vehicle battery might be severely damaged or the jump starter needs recharging.
Vehicle does not start after jump attempt.	Jump starter battery too low; vehicle battery severely damaged; other vehicle issues.	Ensure jump starter is fully charged. Attempt jump start again. If unsuccessful, the vehicle may have other mechanical or electrical problems requiring professional assistance.
Device not charging from USB ports.	Jump starter battery low; device cable faulty; jump starter not activated.	Charge the jump starter. Try a different charging cable. Press the Power Button (6) to activate output.

## SPECIFICATIONS

Feature	Detail
Model	AX2500
Peak Current	2500A
Battery Capacity	21000mAh
Start Voltage	12V
Gas Engine Rating	Up to 10.0L
Diesel Engine Rating	Up to 7.3L
USB-C Input/Output	PD 18W (5V/3A, 9V/2A, 12V/1.5A)
USB-A Output	Quick Charge (5V/3A, 9V/2A, 12V/1.5A)
DC Output	12V/10A
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions (L x W x H)	24 x 10 x 10 cm
Weight	634 g
Battery Type	Lithium-polymer

## WARRANTY AND SUPPORT

The AsperX AX2500 Car Jump Starter comes with a 2-year technical support warranty.

If you encounter any issues or have questions regarding your product, please contact AsperX customer support. Refer to the contact information provided in your original purchase documentation or on the official AsperX website.

