

UTRAI JS-1 Pro

UTRAI Pro 5000A Portable Car Jump Starter Instruction Manual

Model: JS-1 Pro

Brand: UTRAI

1. INTRODUCTION

The UTRAI Pro 5000A Portable Car Jump Starter (Model: JS-1 Pro) is a versatile and powerful device designed to provide emergency jump-starting for vehicles, along with additional functionalities such as a power bank, flashlight, and emergency tools. It is engineered for reliability and safety, featuring multiple protection mechanisms to ensure secure operation.

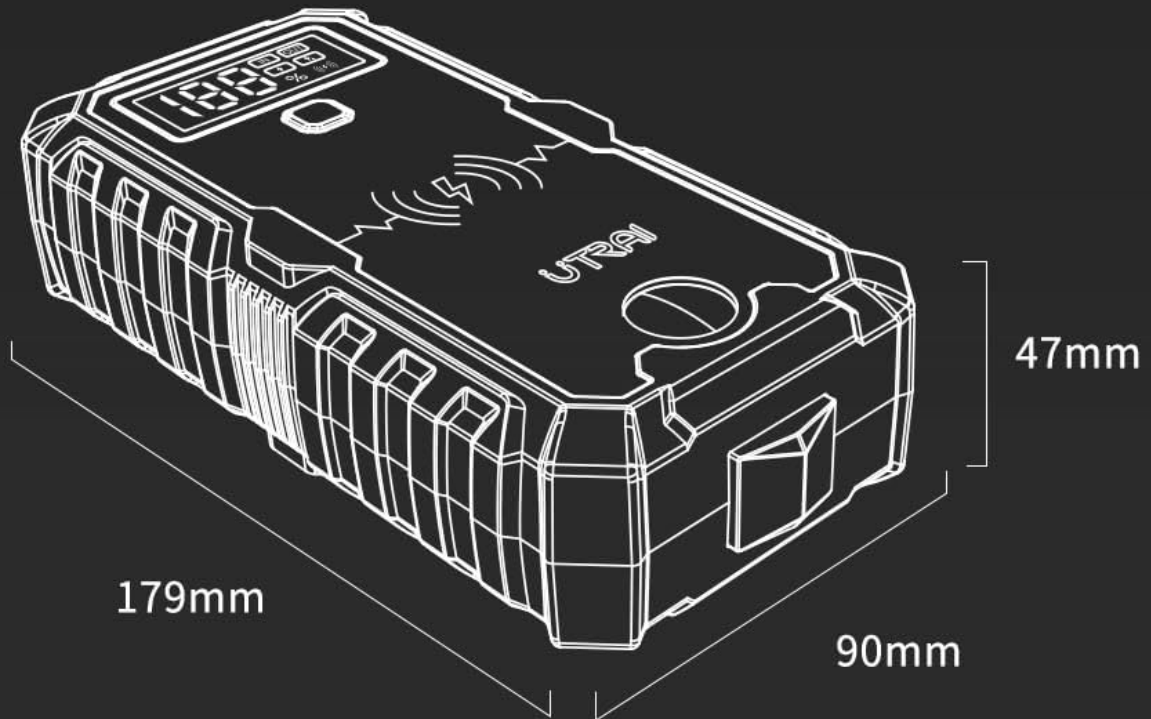
This jump starter is capable of instantly starting 12V vehicles with all gas or up to 8.5-liter diesel engines, offering up to 50 starts on a single charge. Its robust design is dustproof and waterproof (IP65), making it suitable for various environmental conditions.

2. WHAT'S IN THE BOX

Please check the package contents to ensure all items are present:

- 1 × JS-1 Pro Portable Car Jump Starter
- 1 × Heavy Duty Smart Clamp
- 1 × USB-C Charging Cable
- 1 × EC5 Cigarette Lighter Socket Cable
- 1 × User Manual
- 1 × Portable Soft Storage Bag

Product Parameters



Model	JS-1 Pro
Car Jump Start Output	12V
Battery Capacity	99.9wh
USB-C Input	5V/2A, 9V/2A
USB1 Output	5V/3A, 9V/2A, 12V/1.5A
USB2 Output	5V/2.1A
Wireless Charging	10W
Unite Size (L * W * H)	179mm * 90mm * 47mm

Figure 2.1: Package Contents of the UTRAI Pro 5000A Jump Starter.

3. PRODUCT OVERVIEW

The UTRAI JS-1 Pro is designed with user convenience and safety in mind. Below is an overview of its main components and features:

- **Display Screen:** A 2-inch large LCD screen shows real-time power percentage and input/output status.
- **Power Button:** Activates the device and controls flashlight modes.
- **Wireless Charging Pad:** Supports 10W wireless charging for compatible mobile devices.
- **USB Output Ports:** Two USB outputs (USB1: 5V 3A/9V 2A/12V 1.5A with fast charging; USB2: 5V 2.1A) for charging phones, tablets, and other devices.
- **USB-C Input Port:** For recharging the jump starter unit (5V 2A/9V 2A).
- **LED Flashlight:** Features 4 modes (SOS, spotlight, strobe, flash) for emergency situations.
- **Compass:** Integrated for navigation in outdoor or emergency scenarios.
- **Safety Hammer:** A built-in emergency escape hammer for breaking glass.
- **EC5 Output Port:** For connecting the smart clamp for jump-starting.



Figure 3.1: UTRAI Pro 5000A Jump Starter Layout.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the UTRAI JS-1 Pro. Connect the provided USB-C charging cable to the USB-C input port on the jump starter and to a suitable USB power adapter (not included). The LCD screen will display the charging progress. A full charge can take several hours. It is recommended to keep the unit charged above 50% for optimal performance and longevity.

4.2 Connecting the Smart Clamp

The smart clamp is essential for jump-starting. Ensure the jump starter is turned off before connecting the clamp.

1. Locate the EC5 output port on the jump starter unit.
2. Insert the blue end of the heavy-duty smart clamp cable firmly into the EC5 output port. Ensure a secure connection.



5. OPERATING INSTRUCTIONS

5.1 Jump-Starting a Vehicle

Follow these steps to safely jump-start your vehicle:

1. Ensure the jump starter is adequately charged (preferably above 50%).
2. Connect the smart clamp to the jump starter unit as described in Section 4.2.
3. Open your vehicle's hood and locate the car battery.
4. Connect the **red (+) clamp** to the **positive (+) terminal** of your car battery.
5. Connect the **black (-) clamp** to the **negative (-) terminal** of your car battery.
6. Once connected, the indicator light on the smart clamp will flash red and green, then turn solid green, indicating it's ready to jump-start.
7. Return to your vehicle and start the engine.
8. Immediately remove the smart clamp from the car battery (first black, then red).
9. Disconnect the smart clamp from the jump starter unit.

4-MODE EMERGENCY FLASHLIGHT

convenient for dealing with breakdown at night
helping signal for emergency outdoor activities

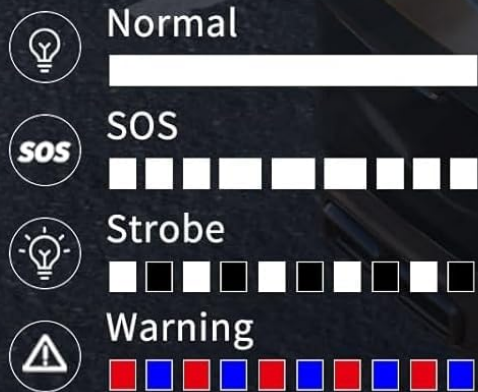


Figure 5.1: Easy 4-Step Jump-Starting Process.

Your browser does not support the video tag.

Video 5.1: Official demonstration of the UTRAI Portable Car Jump Starter in action, showing connection and vehicle start-up.

5.2 Using as a Power Bank

The UTRAI JS-1 Pro can charge your electronic devices:

- **USB Charging:** Connect your device's USB cable to either of the USB output ports (USB1 or USB2).
- **Wireless Charging:** Place your Qi-compatible smartphone on the wireless charging pad located on the top surface of the jump starter. Ensure the phone is centered for effective charging.

MULTIPLE PROTECTION



Short Circuit
Protection



Over Charge
Protection



Over Discharge
Protection



Reverse Polarity
Protection



Reverse Charge
Protection



Over Current
Protection



Reverse Connection
Protection



High-temperature
Protection

Figure 5.2: Charging multiple devices with the UTRAI Jump Starter.

5.3 Using the LED Flashlight

The built-in LED flashlight has multiple modes for various situations:

1. Press and hold the Power Button for 3 seconds to turn on the flashlight (Normal mode).
2. Press the Power Button once to cycle through modes: Normal → SOS → Strobe → Warning (Red/Blue Flash).
3. Press and hold the Power Button again to turn off the flashlight.

Packing List



Figure 5.3: 4-Mode Emergency Flashlight.

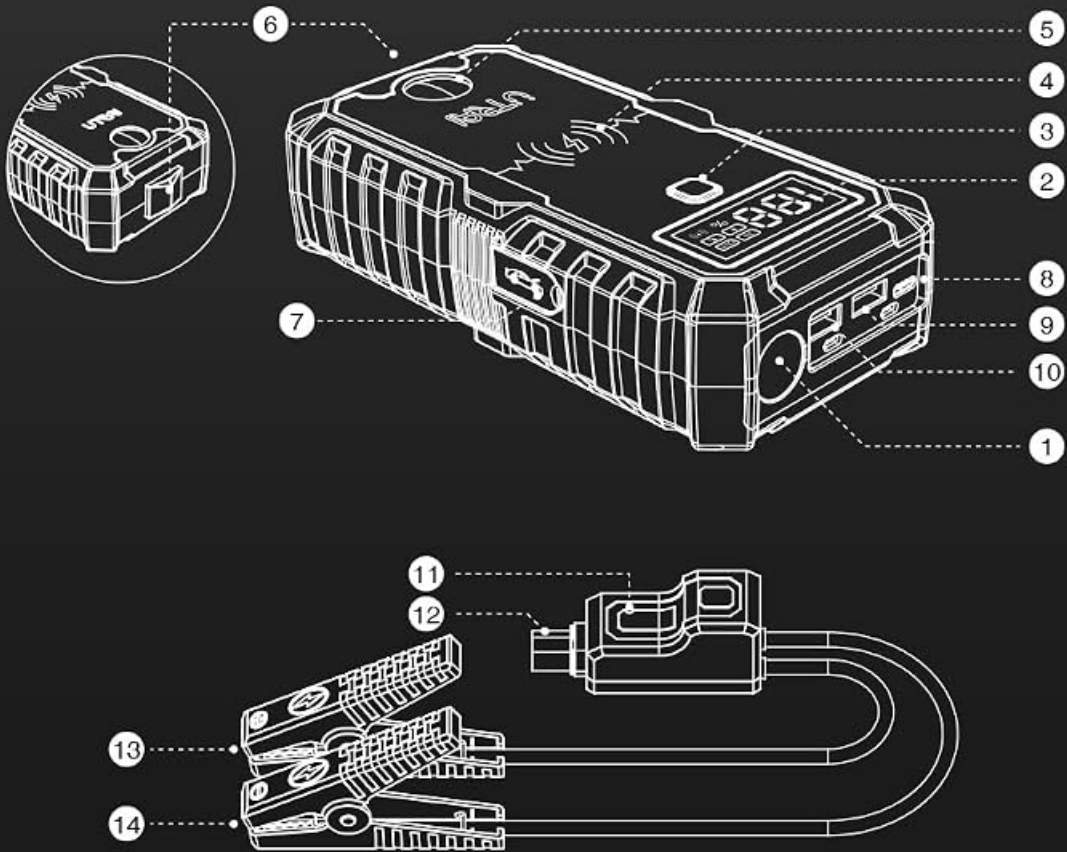
6. SAFETY PRECAUTIONS

The UTRAI JS-1 Pro is equipped with multiple advanced protection features to ensure safe operation. Always adhere to the following guidelines:

- **Correct Polarity:** Always connect the red clamp to the positive (+) terminal and the black clamp to the negative (-) terminal. The smart clamp has built-in reverse polarity protection.
- **Spark Protection:** The smart clamp is designed to prevent sparks during connection.
- **Over-Current/Over-Voltage/Over-Charge/Over-Discharge Protection:** The device automatically protects against these conditions.
- **Over-Temperature Protection:** The unit is designed to operate safely within a wide temperature range (-20°C/-4°F to 60°C/140°F) and has internal temperature monitoring.
- **Short-Circuit Protection:** Prevents damage in case of a short circuit.

- **Water and Dust Resistance:** Rated IP65, offering protection against dust and water splashes.
- Do not attempt to jump-start a vehicle if the jump starter's battery level is critically low.
- Do not leave the clamps connected to the car battery after the vehicle has started.
- Keep the device away from children.

Layout



	Function
1	LED Flashlight
2	Display Screen
3	Power Button
4	Wireless Charging Pad
5	Compass
6	Safety Hammer
7	EC5 Output Port
8	USB-C Input Port

9	USB Output Port 1
10	USB Output Port 2
11	LED Indicator
12	Battery Clamps Plug
13	Red Battery Clamp
14	Black Battery Clamp

Figure 6.1: Multiple Protection Features.

7. MAINTENANCE

- **Recharging:** Recharge the jump starter after each use. For long-term storage, recharge every 3-6 months to maintain battery health. The unit can last on standby for up to 24 months when fully charged.
- **Cleaning:** Use a soft, dry cloth to clean the unit. Do not use harsh chemicals or abrasive materials.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. The recommended operating and storage temperature range is -20°C (-4°F) to 60°C (140°F).

8. TROUBLESHOOTING

If you encounter issues with your UTRAI JS-1 Pro, refer to the following common solutions:

- **Device Not Turning On:** Ensure the unit is charged. Press and hold the power button for a few seconds.
- **Vehicle Not Starting:**
 - Check that the smart clamp is securely connected to both the jump starter and the car battery terminals with correct polarity.
 - Ensure the jump starter has sufficient charge (above 50%).
 - If the smart clamp indicator shows an error (e.g., solid red or flashing red/green), disconnect and reconnect the clamps.
- **Charging Issues:**
 - Ensure the USB-C cable is properly connected to both the jump starter and the power source.
 - Try a different USB-C cable or power adapter.
- For more detailed troubleshooting, please consult the included User Manual.

9. SPECIFICATIONS

Feature	Specification
Model	JS-1 Pro
Peak Current	5000 Amps

Feature	Specification
Battery Capacity	99.9Wh (27000mAh)
Car Jump Start Output	12V
Engine Compatibility	All Gas Engines, up to 8.5L Diesel Engines
USB-C Input	5V/2A, 9V/2A
USB1 Output	5V/3A, 9V/2A, 12V/1.5A (Fast Charging)
USB2 Output	5V/2.1A
Wireless Charging	10W
Operating Temperature	-20°C (-4°F) to 60°C (140°F)
Dimensions (L×W×H)	179mm × 90mm × 47mm (7"D x 3.6"W x 1.8"H)
Item Weight	2.59 Pounds (1.17 kg)
Material	PC+ABS UL94-V0 flame retardant
Waterproof Rating	IP65



Figure 9.1: UTRAI Pro 5000A Jump Starter.

10. WARRANTY AND SUPPORT

UTRAI is committed to providing high-quality products and excellent customer service. Your UTRAI JS-1 Pro comes with:

- **2-Year Warranty:** Enjoy peace of mind with a comprehensive 2-year warranty covering manufacturing defects.
- **Lifetime Technical Support:** UTRAI offers lifetime technical assistance for any questions or issues you may encounter.
- **30-Day Unconditional Return & Refund:** If you are not satisfied with your purchase, you may return it within 30 days for a full refund.
- **24-Hour Customer Support:** Our dedicated customer support team is available 24 hours a day to assist you.

For support, please refer to the contact information provided in your User Manual or visit the official UTRAI website.



Figure 10.1: UTRAI Customer Support and Warranty Information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question