

## UTRAI Jstar X1

# UTRAI Jstar X1 Portable Super Capacitor Jump Starter User Manual

## INTRODUCTION

---

The UTRAI Jstar X1 is a portable super capacitor jump starter designed for safely and efficiently starting 12V vehicles. Unlike traditional lithium-ion battery jump starters, the Jstar X1 utilizes super capacitor technology, eliminating concerns about heat, explosion, or pre-charging for extended periods. It is engineered to provide quick and reliable starts for a wide range of vehicles, including SUVs, RVs, pick-up trucks, motorcycles, snowmobiles, and lawnmowers.

This device charges rapidly from a weak car battery in approximately 3 minutes, making it ready for use when you need it most. Its robust design allows for operation in extreme temperatures, from -40°F to 158°F, ensuring performance in various weather conditions. The Jstar X1 is built for longevity, capable of over 100,000 uses, and incorporates advanced smart clamp technology with multiple protection features for enhanced safety.



Image: The UTRAI Jstar X1 unit with its red and black smart clamps attached, displaying its main features and "Always Ready" slogan.

## SAFETY INFORMATION

---

Please read and understand all safety information before using the UTRAI Jstar X1. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Eye Protection:** Always wear safety glasses when working with vehicle batteries.
- **Ventilation:** Ensure adequate ventilation when working in enclosed spaces.
- **Proper Connection:** Connect the clamps in the correct polarity (red to positive, black to negative). Incorrect connection can cause sparks or damage.
- **Spark Prevention:** Avoid creating sparks near the battery. Do not short-circuit the clamps.
- **Children and Pets:** Keep the device and its accessories out of reach of children and pets.
- **Operating Environment:** Do not expose the device to rain or wet conditions. Do not operate in the presence of flammable liquids or gases.
- **Damage:** Do not use the device if it is damaged. Contact customer support for assistance.
- **Super Capacitor Technology:** The Jstar X1 uses super capacitor technology, which is inherently safer than lithium-ion batteries, reducing risks of explosion or burning. However, standard electrical safety precautions must still be observed.
- **Smart Clamps:** The included smart clamps feature multi-protection technologies to prevent common errors and ensure safe operation.

## PRODUCT COMPONENTS

---

The UTRAI Jstar X1 package typically includes the following items:

- UTRAI Jstar X1 Super Capacitor Jump Starter Unit

- Smart Jumper Clamps (Red for Positive, Black for Negative)
- User Manual (this document)



Image: The UTRAJ Jstar X1 positioned in a vehicle's engine bay, illustrating its application and highlighting its capacity for various engine sizes.

## SETUP AND CHARGING

The Jstar X1 does not require pre-charging for hours like traditional battery jump starters. It charges directly from your vehicle's weak battery or other 12V sources.

### Charging from a Weak Car Battery:

1. **Connect Clamps:** Attach the red positive (+) clamp to the positive terminal of your vehicle's dead battery. Attach the black negative (-) clamp to the negative terminal of your vehicle's dead battery.
2. **Automatic Charging:** The Jstar X1 will automatically begin to draw power from the weak battery to charge its super capacitors. The LCD screen will display the charging progress. This process typically takes approximately 3 minutes.
3. **Ready Indication:** Once fully charged, the LCD screen will show "100%" and the unit will be ready for jump-starting.

# NO NEED REGULAR CHARGE

- ⚡ Super Capacitor, Not Lithium Jumper
- ⚡ No Pre-charging Required
- ⚡ Take A Quick Charge From Your Weak Batteries When You Use It



Image: The UTRAJ Jstar X1 positioned inside a vehicle, highlighting its battery-free super capacitor technology that eliminates the need for pre-charging.

## OPERATING INSTRUCTIONS: JUMP STARTING A VEHICLE

Follow these steps to jump start your vehicle using the UTRAJ Jstar X1:

1. **Ensure Safety:** Park your vehicle in a safe location, engage the parking brake, and turn off all accessories.
2. **Connect Clamps:**
  - Attach the red positive (+) clamp to the positive terminal of the dead battery.
  - Attach the black negative (-) clamp to a clean, unpainted metal part of the engine block or chassis, away from the battery and fuel lines. Do not connect directly to the negative terminal of the dead battery unless specified by your vehicle manufacturer.
3. **Charge the Unit:** The Jstar X1 will automatically begin charging from the weak battery. Wait approximately 3 minutes until the LCD screen displays "100%".
4. **Press Power Button:** Once charged, press the power button on the Jstar X1 unit. The unit will emit a regular "tick" sound for about 10 seconds.
5. **Start Engine:** After the regular "tick" sound stops and turns into a long beep, immediately attempt to



start your vehicle's engine.

6. **Disconnect Clamps:** Once the engine starts, disconnect the black negative (-) clamp first, then the red positive (+) clamp. Store the unit safely.



Image: A visual representation of the four-step jump-starting process with the UTRAI Jstar X1, showing clamp connection, charging, power button activation, and engine start.

### Understanding the LCD Screen:

The large LCD screen provides critical information during operation:

- **Percentage (%):** Indicates the charge level of the super capacitors. "100%" means fully charged and ready to jump start.
- **Voltage (V):** Displays the current voltage of the vehicle's battery or the unit itself.
- **"IN":** Indicates that the unit is currently charging.
- **"UVP":** Under Voltage Protection indicator. This may appear if the input voltage is too low.

# LARGE LCD SCREEN

Important: After the Regular "Tick" (10s),  
Turn to A Long Beep and Start Your Engine.



Image: A detailed view of the UTRAI Jstar X1's LCD screen, showing a 100% charge indicator, voltage reading, and the 'IN' symbol, along with a note about starting the engine after a long beep.

## MAINTENANCE

To ensure the longevity and optimal performance of your UTRAI Jstar X1, follow these maintenance guidelines:

- **Cleaning:** Wipe the unit with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the clamps are clean and free of corrosion.
- **Storage:** Store the Jstar X1 in a cool, dry place, away from direct sunlight and extreme temperatures. The operating temperature range is -40°F to 158°F, but for long-term storage, room temperature is ideal.
- **Lifespan:** The super capacitor technology allows for over 100,000 uses, significantly extending the product's operational life compared to traditional battery-based jump starters.
- **Inspection:** Periodically inspect the unit and clamps for any signs of damage, wear, or loose connections.





Image: The UTRAI Jstar X1 unit encased in ice, illustrating its capability to function reliably in extremely cold environments, specifically down to -40°F.

## TROUBLESHOOTING

If you encounter issues with your UTRAI Jstar X1, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not charge or display anything.	Clamps not properly connected. Vehicle battery is completely dead (below minimum voltage for charging). Unit or clamps are damaged.	Ensure clamps are securely attached to the correct battery terminals.  If the battery is extremely low, try charging from another 12V source if available (e.g., another vehicle's battery).  Contact customer support if damage is suspected.

Problem	Possible Cause	Solution
Vehicle does not start after jump-starting.	Insufficient charge in the Jstar X1. Incorrect connection of clamps. Vehicle issue unrelated to battery (e.g., starter motor, fuel system).	Ensure the Jstar X1 shows "100%" charge before attempting to start. Verify clamps are connected correctly (red to positive, black to chassis/engine block). If the problem persists, consult a professional mechanic.
"UVP" indicator displayed on LCD.	Under Voltage Protection activated. Input voltage from the vehicle battery is too low for the unit to charge.	Try connecting to a different 12V power source to charge the Jstar X1, or ensure the vehicle battery has at least a minimal charge.

For further assistance, please contact UTRAI customer support.

## SPECIFICATIONS





Model	Jstar X1
Brand	UTRAI
Product Dimensions	21.59 x 11.43 x 7.62 cm
Item Weight	1.42 kg
Amperage	500 Amps
Voltage	12 Volts
Capacitor	500F
Engine Compatibility	Up to 8.0L Gas, 7.5L Diesel
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Vehicle Service Type	Motorcycle, Passenger Car, Truck

## WARRANTY AND SUPPORT

UTRAI is committed to providing excellent customer service and product support for the Jstar X1.

- **After-sales Service:** UTRAI offers lifetime free after-sales service, including a professional 24-hour online support team to assist with any product-related issues.
- **Return/Replacement Policy:** A free return/replacement policy is available to protect customer rights.
- **Contact:** For any questions, concerns, or support needs, please contact UTRAI customer service through the official channels provided at the point of purchase or on the UTRAI website.



	<p><a href="#">UTRAI T1 Jump Starter User Manual - Portable Car Battery Booster</a></p> <p>Comprehensive user manual for the UTRAI T1 portable jump starter. Learn how to charge your car battery, charge devices, use the LED flashlight, and understand safety features.</p>
	<p><a href="#">UTRAI Jump Starter JS-Mini User Manual</a></p> <p>User manual for the UTRAI JS-Mini Jump Starter, providing detailed instructions on its features, operation, specifications, and safety precautions for jump-starting vehicles and charging devices.</p>
	<p><a href="#">UTRAI JS-5 Jump Starter &amp; Air Compressor User Manual</a></p> <p>Comprehensive user manual for the UTRAI JS-5 portable jump starter and air compressor. Includes instructions for jump starting vehicles, inflating tires, charging devices, safety precautions, specifications, and troubleshooting.</p>
	<p><a href="#">UTRAI JS-1 Pro Jump Starter User Manual: Features, Operation, and Safety</a></p> <p>Comprehensive user manual for the UTRAI JS-1 Pro portable jump starter. Learn about its specifications, operation, charging, safety guidelines, and troubleshooting. Includes jump starting instructions and customer support.</p>
	<p><a href="#">UTRAI JS-5 Jump Starter &amp; Air Compressor User Manual</a></p> <p>Comprehensive user manual for the UTRAI JS-5 Jump Starter and Air Compressor, detailing its features, operation, safety precautions, and troubleshooting. Includes jump starting, tire inflation, and device charging instructions.</p>
	<p><a href="#">UTRAI T1 User Manual - Jump Starter Guide</a></p> <p>Comprehensive user manual for the UTRAI T1 jump starter. Learn about its features, specifications, safety information, and operation for charging devices and jump-starting vehicles.</p>