

AIMAPOW A20

AIMAPOW A20 6000A Portable Car Jump Starter User Manual

Model: A20 | Brand: AIMAPOW

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your AIMAPOW A20 6000A Portable Car Jump Starter. Please read this manual thoroughly before operating the device and retain it for future reference. The AIMAPOW A20 is designed to jump-start 12V vehicles (up to all gasoline or 10.0L diesel engines), serve as a portable power bank, and provide emergency lighting.

2. SAFETY INFORMATION AND WARNINGS

Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and gloves when jump-starting a vehicle.
- Do not immerse the device in water or expose it to rain.
- Do not operate the device if it is damaged.
- Keep out of reach of children.
- Do not short-circuit the jump starter terminals.
- Ensure proper polarity when connecting to a vehicle battery (Red clamp to positive (+), Black clamp to negative (-)). The intelligent clamps will alert you to incorrect connections.
- Do not attempt to jump-start a frozen battery.
- Do not use the jump starter in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Store the device in a cool, dry place away from direct sunlight.

- The device features 10 types of intelligent protection, including spark-proof, reverse polarity, overcurrent, high temperature, and overload protection.



Image: The AIMAPOW A20 jump starter incorporates multiple intelligent protection features for safe operation, including protection against overcurrent, overcharge, overvoltage, short circuit, low voltage, reverse polarity, high temperature, low temperature, and sparks. The diagram illustrates 8 of these features.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x AIMAPOW A20 Car Jump Starter
- 1 x Extended Jumper Cables with Smart Clamps
- 1 x USB-C Charging Cable
- 1 x User Manual
- 1 x Storage Box



Image: The package includes the AIMAPOW A20 jump starter unit, smart jumper cables, a USB-C charging cable, a user manual, and a protective storage box.

4. PRODUCT OVERVIEW

The AIMAPOW A20 is a versatile device designed for automotive emergencies and portable power needs. Key features include:

- **Powerful Jump Starter:** 6000A peak current, capable of starting 12V vehicles with up to all gasoline or 10.0L diesel engines.
- **Portable Power Bank:** 20000mAh capacity with USB-A output (5V/3A) and USB-C input/output for charging mobile phones, tablets, and other devices.
- **Integrated LED Flashlight:** 400 Lumen LED with three modes: constant illumination, strobe, and SOS signal.
- **Smart Jumper Cables:** Equipped with intelligent protection systems to prevent misuse and ensure safety.
- **Durable Design:** Hardened plastic and rubber corners for enhanced durability.



Image: The device features a 400 Lumen LED flashlight with three modes: bright, SOS, and strobe, useful for various emergency situations.



Image: The power level indicator shows the battery status: Green (can be activated), Blue (can be activated), Yellow (not recommended to start), and Red (prohibited from starting).

5. SPECIFICATIONS

Feature	Specification
Model Number	A20
Peak Amperage	6000 Amperes
Battery Capacity	20000 mAh (21000 mAh listed in some specs)
Battery Cell Composition	Lithium Ion
Voltage	12 Volts (DC)
Vehicle Service Type	Car, SUV, Motorcycle, Motorhome (up to all gasoline or 10.0L diesel engines)
USB Output	5V/3A
USB-C Input/Output	Yes

LED Flashlight Lumens	400 Lumens
Product Dimensions	10 x 13 x 22 cm
Product Weight	920 g
Operating Temperature Range	-20°C to 60°C (-4°F to 140°F)



Image: The AIMAPOW A20 is compatible with various vehicle types, including motorcycles (2.5L), cars (3.5L), SUVs (5.5L), and motorhomes (7.0L), supporting all gasoline and up to 10.0L diesel engines.



Image: The jump starter is designed to operate effectively in extreme temperatures, from -20°C (-4°F) to 60°C (140°F).

6. SETUP AND INITIAL CHARGE

Before first use, ensure the jump starter is fully charged.

- 1. Charge the Jump Starter:** Connect the provided USB-C charging cable to the jump starter's USB-C input port and plug the other end into a USB wall adapter (not included) or a car charger. The battery indicator lights will illuminate to show charging progress. Charge until all indicator lights are solid, indicating a full charge.
- 2. Store Properly:** After charging, store the jump starter and accessories in the provided storage box in a cool, dry place.

For optimal performance and readiness in emergencies, it is recommended to keep the jump starter's

battery level above 25% at all times.

7. OPERATING INSTRUCTIONS

7.1. Jump Starting a Vehicle

Follow these steps to safely jump-start your vehicle:

1. **Connect Jumper Cables to Jump Starter:** Insert the blue plug of the smart jumper cables firmly into the jump starter's output port. Ensure a secure connection.
2. **Connect Clamps to Car Battery:**
 - Connect the **red (+) clamp** to the positive terminal of the vehicle's battery.
 - Connect the **black (-) clamp** to the negative terminal of the vehicle's battery.

The smart clamps will indicate correct connection (solid green light) or incorrect connection (beeping and flashing lights). Correct any incorrect connections before proceeding.

3. **Start the Vehicle:** Once the smart clamp indicator shows a solid green light, start your vehicle's engine.
4. **Remove Clamps:** After the vehicle starts, immediately remove the black (-) clamp from the vehicle battery, then the red (+) clamp. Finally, disconnect the jumper cables from the jump starter.

8 PROTEZIONI INTELLIGENTI



Protezione da sovracorrente



Protezione da sovraccarico



Protezione da inversione di polarità



Nessuna protezione dalle scintille



Protezione da sovratensione



Protezione da cortocircuito



Protezione da sovratemperatura



Protezione anti-interferenza

Image: Visual guide for jump-starting: 1. Insert cable into jump starter. 2. Connect clamps to battery. 3. Start car engine. 4. Remove clamps.



Image: The AIMAPOW A20 jump starter connected to a car battery with smart clamps, illustrating the readiness for an emergency start.

7.2. Forced Start Function (Advanced)

If the smart clamp indicator does not show a solid green light after connecting to the battery, indicating a very low battery voltage, you may use the forced start function. **Note: Using the forced start function bypasses some safety protections. Use with extreme caution.**

1. **Connect Clamps:** Connect the red (+) clamp to the positive terminal and the black (-) clamp to the negative terminal of the vehicle's battery.
2. **Activate Forced Start:** Press and hold the power button on the jump starter for approximately 3 seconds until the indicator light on the smart clamp turns solid green.
3. **Start the Vehicle:** Immediately start your vehicle's engine.
4. **Remove Clamps:** After the vehicle starts, immediately remove the black (-) clamp, then the red (+) clamp. Disconnect the jumper cables from the jump starter.

7.3. Using as a Portable Power Bank

The AIMAPOW A20 can charge your electronic devices:

- Connect your device's USB charging cable to the USB-A output port (5V/3A) or the USB-C port on the jump starter.
- The jump starter will automatically begin charging your device.

7.4. Using the LED Flashlight

The integrated 400 Lumen LED flashlight has three modes:

1. **Turn On/Off:** Press and hold the power button for 3 seconds to turn the flashlight on or off.
2. **Change Modes:** Once the flashlight is on, short press the power button to cycle through modes: Constant Light → Strobe Light → SOS Signal.



Image: The 400 Lumen flashlight of the AIMAPOW A20 jump starter providing illumination, with options for SOS and strobe modes.

8. MAINTENANCE

- **Recharge Regularly:** To prolong battery life and ensure readiness, recharge the jump starter every 3-6 months, even if not used.
- **Clean the Device:** Use a dry, soft cloth to clean the exterior of the jump starter. Do not use harsh chemicals or abrasive materials.
- **Store Properly:** Store the device in its protective case in a cool, dry environment, away from direct sunlight and extreme temperatures.
- **Check Cables:** Periodically inspect the jumper cables and clamps for any signs of damage, wear, or corrosion. Replace if necessary.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Vehicle does not start.	<ul style="list-style-type: none"> • Jump starter battery is low. • Incorrect clamp connection. • Vehicle battery is severely damaged. • Vehicle issue unrelated to battery. 	<ul style="list-style-type: none"> • Recharge the jump starter. • Ensure clamps are connected correctly (red to +, black to -). Check smart clamp indicator. • Try the forced start function (with caution). If still no start, the vehicle battery may need replacement or professional service. • Consult a mechanic.
Smart clamp indicator flashes/beeps.	<ul style="list-style-type: none"> • Reverse polarity connection. • Short circuit. • Over-temperature. 	<ul style="list-style-type: none"> • Disconnect and reconnect clamps with correct polarity. • Check for any metal objects causing a short circuit. • Allow the device to cool down before reuse.
Jump starter not charging devices.	<ul style="list-style-type: none"> • Jump starter battery is low. • Charging cable is faulty or not connected properly. 	<ul style="list-style-type: none"> • Recharge the jump starter. • Ensure cables are securely connected. Try a different cable.

10. WARRANTY AND SUPPORT

Your AIMAPOW A20 Car Jump Starter comes with professional technical support. If you encounter any issues with your portable jump starter power supply, please contact our customer service team. We aim to respond within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official AIMAPOW website.

