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› AIMAPOW A20 Portable Car Battery Jump Starter 6000A - User Manual

AIMAPOW A20

AIMAPOW A20 Portable Car Battery Jump Starter 6000A

User Manual

1. INTRODUCTION

Thank you for choosing the AIMAPOW A20 Portable Car Battery Jump Starter. This device is designed to provide a reliable solution for jump-starting vehicles with dead batteries, serving as a powerful portable charger for electronic devices, and offering emergency lighting. Please read this manual thoroughly before use to ensure safe and optimal operation.

What's in the Box

- AIMAPOW A20 Car Jump Starter Unit
- Smart Jumper Cables with Safety Protections
- USB Type-C Charging Cable
- User Manual (this document)
- Protective Carrying Case

WHAT YOU GET

- 1 AIMAPOW A20 Car Jump Starter
- 2 Extended Jumper Cables
- 3 USB-C Charging Cable
- 4 User Manual
- 5 Storage Box
- 6 Package



Figure 1: Package Contents of the AIMAPOW A20 Jump Starter.

The image above displays the complete set of items included with your AIMAPOW A20 Portable Car Battery Jump Starter. This includes the main jump starter unit, the smart jumper cables for safe connection to a car battery, a USB Type-C cable for charging the unit, the user manual for detailed instructions, and a durable carrying case to keep all components organized and protected.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent electric shock, explosion, fire, or damage to the device

or vehicle.

- Read all instructions before using the product.
- Do not immerse the product in water or expose it to rain.
- Do not operate the product in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep the product away from children.
- Use only the provided smart jumper cables.
- Do not jump start a frozen battery.
- Ensure proper polarity connection (red clamp to positive, black clamp to negative).
- If the smart clamp indicator shows a red light or error, do not proceed. Consult the troubleshooting section.
- Do not use the 'Force Start' function unless absolutely necessary, as it bypasses safety protections.

10 SMART CLAMP PROTECTIONS



Figure 2: Smart Clamp Protections.

The AIMAPOW A20 features 10 smart clamp protections to ensure user safety and prevent damage to the battery and jump starter. These include safeguards against over current, over charge, reverse polarity, and short circuits. The clamps are designed to be spark-proof and offer protection against over-voltage, over-temperature, low-temperature, and over-discharge conditions, making the device safe and reliable for various situations.

3. SETUP

Charging the Jump Starter

Before initial use, fully charge the AIMAPOW A20. Connect the provided USB Type-C charging cable to the jump starter's input port and a suitable USB power adapter (not included). The battery indicator lights will illuminate to show the charging progress. Ensure the unit is fully charged for optimal performance, especially before storing it for extended periods.



Figure 3: Power Level Indicator.

The power level indicator on the jump starter provides a visual representation of its charge status. Green and blue lights indicate sufficient charge for activation. A yellow light suggests that starting is not recommended due to low power, while a red light indicates that starting is prohibited, requiring the unit to be recharged.

4. OPERATING INSTRUCTIONS

Jump Starting a Vehicle

1. Ensure the jump starter is sufficiently charged (green or blue indicator lights).
2. Connect the smart jumper cables to the jump starter unit.
3. Attach the red (positive) clamp to the positive (+) terminal of the vehicle's battery.
4. Attach the black (negative) clamp to the negative (-) terminal of the vehicle's battery.
5. Observe the indicator light on the smart clamp:
 - If the light is solid green, proceed to step 6.
 - If the light does not come on or is flashing, press and hold the 'Force Start' button on the smart clamp for approximately 3 seconds until it turns solid green. **Note:** Using 'Force Start' bypasses safety protections.
6. Start your vehicle's engine.
7. Once the engine starts, immediately remove the smart clamps from the vehicle battery, then disconnect them from the jump starter unit.

How to start your vehicle

STEP 1

Connect the clamps to the battery terminals.



STEP 2

If the light is solid green, go to step 3.



STEP 2

If the light does not come on/the light does not start, press and hold the clamp force start button until it comes on (approximately 3 seconds).



STEP 3

Start your vehicle engine.
Engine Start Stop.



Note that when using the force start button, all protection is lost.

Figure 4: How to Jump Start Your Vehicle.

This visual guide demonstrates the three primary steps for jump-starting your vehicle. First, connect the smart clamps to the battery terminals, ensuring correct polarity. Second, verify the indicator light on the smart clamp is solid green; if not, use the force start button. Finally, start your vehicle's engine. Remember to disconnect the clamps promptly after the engine starts.

Using as a Power Bank

The AIMAPOW A20 features two USB output ports to charge your electronic devices. Connect your device's charging cable to one of the USB output ports on the jump starter. The unit will automatically begin charging your

device. It can charge smartphones, tablets, laptops, and other USB-powered devices.

Using the Emergency Flashlight

The built-in LED flashlight offers three modes for various situations:

- **Lighting Mode:** Press and hold the power button for 3 seconds to turn on the steady light.
- **Strobe Mode:** Press the power button once more to activate the flashing strobe light.
- **SOS Mode:** Press the power button a third time to activate the SOS signal.

To turn off the flashlight, press the power button again after SOS mode, or press and hold the power button for 3 seconds in any mode.

400 LUMEN LED



Figure 5: 400 Lumen LED Flashlight Modes.

The AIMAPOW A20 is equipped with a 400 Lumen LED flashlight, offering three distinct modes: a steady bright light for general illumination, an SOS mode for emergency signaling, and a strobe mode for increased visibility. These features are useful during nighttime breakdowns or in situations requiring emergency alerts.

Official Product Video: How to Use

Your browser does not support the video tag.

Video 1: Car Jump Starter Demonstration. This video provides a visual guide on how to effectively use the AIMAPOW A20 Portable Car Jump Starter, demonstrating the connection process and operation.

5. MAINTENANCE

Storage

Store the jump starter in its protective carrying case in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the unit is charged to at least 50% before storing for long periods to maintain battery health.

Recharging

Recharge the unit every 3-6 months, even if not used, to prolong battery life. If the battery indicator shows low charge, recharge it as soon as possible.

6. TROUBLESHOOTING

- **Unit does not turn on:** Ensure the unit is charged. If not, connect it to a power source using the USB Type-C cable.
- **Vehicle does not jump start:**
 - Check that the smart clamps are securely connected to the correct battery terminals (red to positive, black to negative).
 - Ensure the smart clamp indicator light is solid green. If not, use the 'Force Start' function if appropriate, or recharge the unit.
 - The vehicle battery might be severely damaged or completely dead. In such cases, professional assistance may be required.
- **Smart clamp indicator shows red/error:** This indicates a safety issue such as reverse polarity, short circuit, or over-temperature. Disconnect the clamps and re-evaluate the connection. Refer to the safety information.
- **Device not charging:** Ensure the USB Type-C cable is properly connected to both the jump starter and the power adapter. Try a different power adapter or cable.

7. SPECIFICATIONS

Feature	Specification
Model	A20
Peak Current	6000 Amps
Battery Capacity	20000 mAh
Voltage	12 Volts
Engine Compatibility	All Gas Engines, up to 10L Diesel Engines
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Battery Cell Composition	Lithium Polymer
Item Weight	2 pounds
Product Dimensions	9.84 x 7.09 x 3.15 inches



Figure 6: Vehicle Compatibility.

This graphic illustrates the broad vehicle compatibility of the AIMAPOW A20 Jump Starter. It is capable of jump-starting all gas engines and diesel engines up to 10.0 liters, covering a range of vehicles from motorcycles and standard cars to off-road vehicles and RVs.

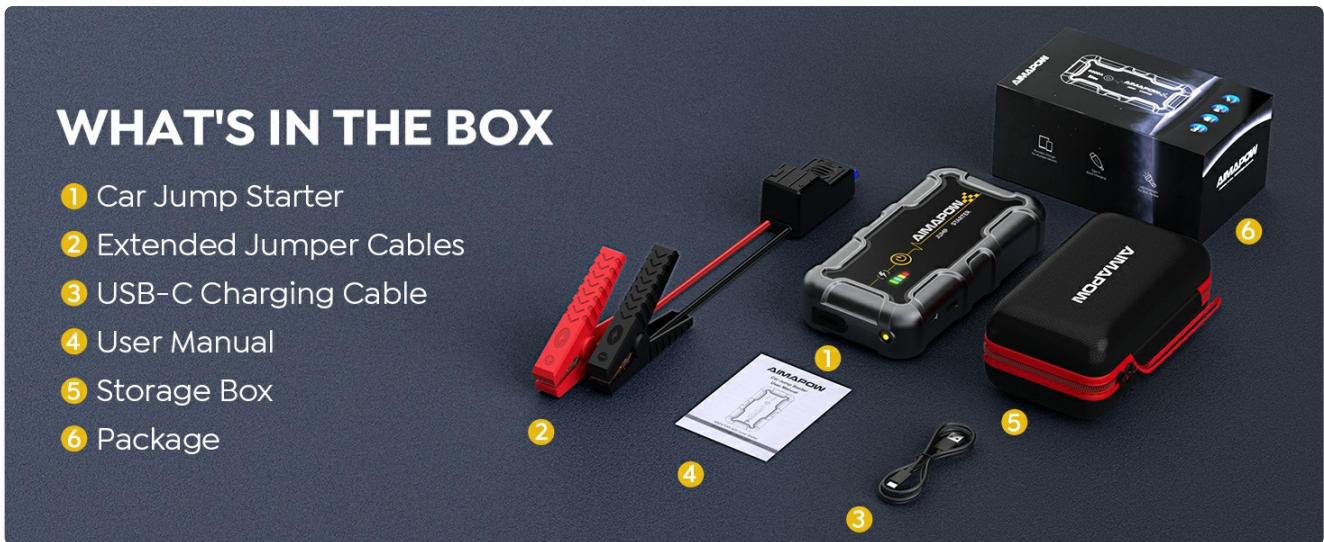


Figure 7: Extreme Weather Performance.

The AIMAPOW A20 Jump Starter is engineered for reliable performance across a wide range of temperatures, from extreme heat at 140°F (60°C) to freezing cold at -4°F (-20°C). This ensures the device remains functional in diverse environmental conditions.

8. WARRANTY AND SUPPORT

The AIMAPOW A20 Portable Car Battery Jump Starter comes with a **2-year (24 months) warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact AIMAPOW customer service through the retailer where the product was purchased or visit the official AIMAPOW website for contact information.

