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Antigravity Batteries Micro-Start AG-XP-20

Antigravity Micro-Start XP-20 User Manual

Model: Micro-Start AG-XP-20 | Brand: Antigravity Batteries

Introduction

The Antigravity Micro-Start XP-20 is a compact and powerful lithium jump-starter and personal power supply. It is engineered to provide reliable starting power for a wide range of vehicles and to charge various personal electronic devices. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your XP-20 unit.



Figure 1: Antigravity Micro-Start XP-20 unit with included accessories.

Key Features

- **Powerful Jump Starting:** Capable of jump-starting most vehicles, including those with up to 8L diesel or 10L gas engines.
- **High Capacity:** 20000mAh (74Wh) lithium battery for extended use.
- **Ultra-Fast Charging:** Features PD100W USB Type-C input/output for rapid charging of the unit and devices.
- **Versatile Charging Ports:** Includes two Type-A USB ports and a 15V DC charging port for various electronics.
- **Digital Display:** Large screen displays charge level, wattage (in/out), and functional alerts.
- **Integrated LED Flashlight:** Multi-mode flashlight for illumination and emergency signaling.
- **Compact and Portable:** Weighs approximately 2 pounds, making it easy to carry.



Figure 2: Close-up view of the XP-20's digital display and various charging ports.

What's in the Box

Your Antigravity Micro-Start XP-20 package includes the following components:

- Micro-Start XP-20 Unit
- Heavy Duty Smart Clamps (for jump starting)
- USB Type-C to Type-C Cable
- USB Type-A to Type-C Cable
- Ultra-Fast 100W USB Type-C Charger
- 12V DC Adapter (for charging the unit)
- Carry Case



Figure 3: All items included in the XP-20 retail package.

[redacted]

Video 1: An overview of the Antigravity Micro-Start XP-20 unit and its features, including the contents of the kit.

Setup

Initial Charging of the XP-20 Unit

Before first use, fully charge your Micro-Start XP-20. This ensures optimal performance and battery longevity.

1. Connect the provided Ultra-Fast 100W USB Type-C Charger to a wall outlet.
2. Connect the USB Type-C cable to the charger and the PD100W Type-C USB port on the XP-20 unit.
3. The digital display will show the charging progress. The unit is fully charged when the display reads 100%.
4. Charging typically takes about 1 hour from a depleted state.

Alternatively, you can charge the unit using the 12V DC Adapter in a vehicle's cigarette lighter socket.

Operating Instructions

Jump Starting a Vehicle

Follow these steps carefully to jump-start your vehicle:

1. Ensure the XP-20 unit is sufficiently charged (preferably above 50%).
2. Connect the **red** clamp of the Smart Clamps to the **positive (+)** terminal of the vehicle's battery.
3. Connect the **black** clamp of the Smart Clamps to the **negative (-)** terminal of the vehicle's battery or a solid, unpainted metal part of the engine block/chassis.
4. Plug the Smart Clamps' blue connector into the Jump Start Port on the XP-20 unit. The Smart Clamps will indicate a green light if connected correctly. A red light indicates incorrect polarity or a problem.
5. Once the green light is solid, start your vehicle.
6. Immediately after the vehicle starts, disconnect the Smart Clamps from the XP-20 unit, then remove the clamps from the vehicle battery (black first, then red).

Note: The XP-20 features built-in safety protections to prevent damage from incorrect connections.

Charging Personal Electronics

The XP-20 can charge various electronic devices:

- **USB Devices (Phones, Tablets, etc.):** Use the appropriate USB cable (Type-C to Type-C or Type-A to Type-C) and connect your device to one of the USB output ports on the XP-20.
- **15V DC Devices:** Use the provided adapter cable and appropriate tips to connect to the 15V DC output port.

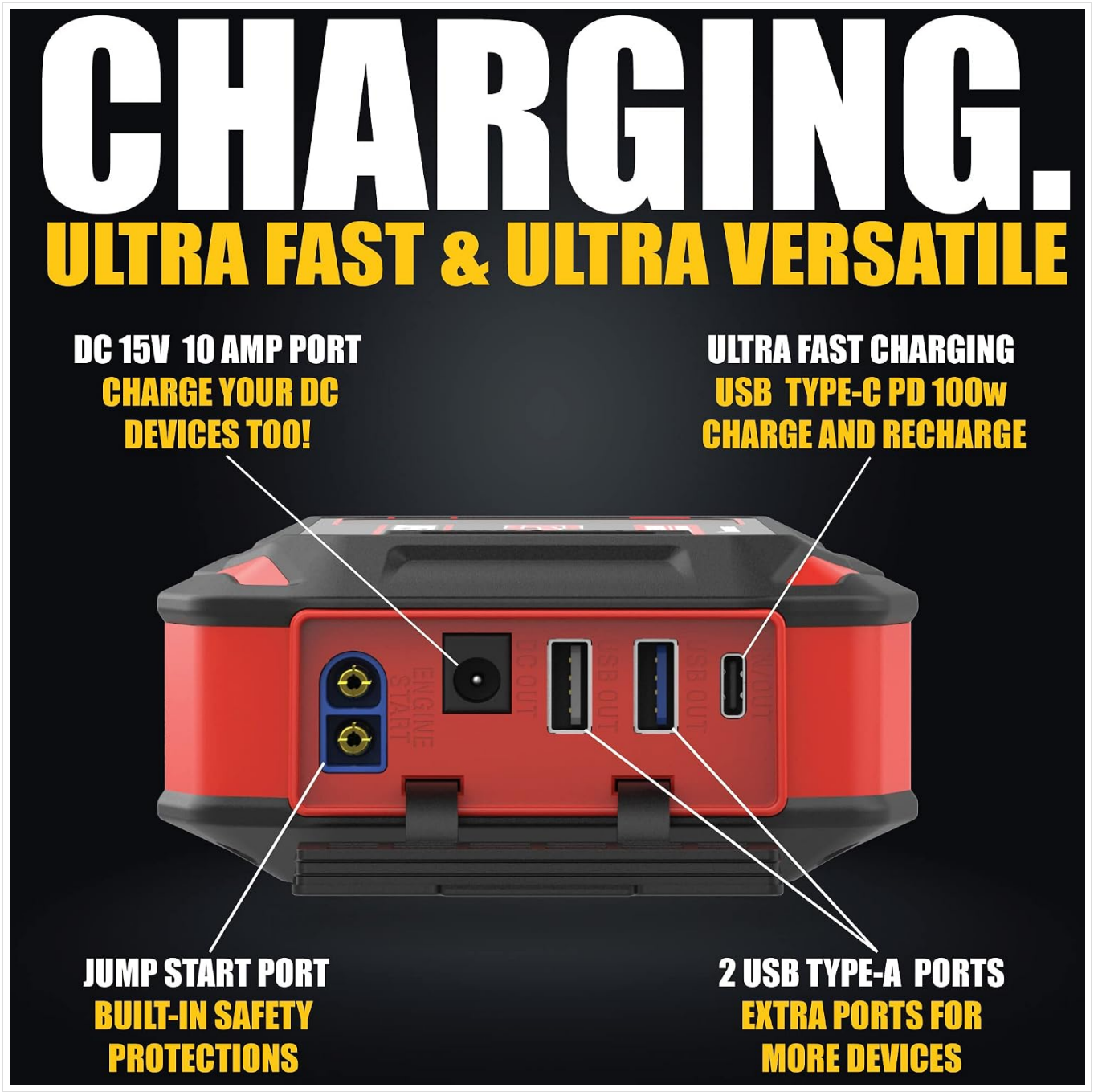


Figure 4: The XP-20 features multiple output ports for charging various devices.

Using the LED Flashlight

The XP-20 includes a powerful LED flashlight with multiple modes:

- Press the flashlight button once for **Steady** illumination.
- Press again for **Strobe** mode.
- Press a third time for **S.O.S.** signal mode.
- Press a fourth time to turn the flashlight off.

Maintenance

To ensure the longevity and optimal performance of your XP-20 unit:

- **Regular Charging:** Recharge the unit every 3-6 months, even if not in use, to maintain battery health.
- **Storage:** Store the unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cleaning:** Wipe the unit with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.

- **Inspect Clamps:** Periodically check the Smart Clamps for any signs of damage or corrosion.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is fully discharged.	Charge the XP-20 unit using the provided charger.
Smart Clamps show red light.	Incorrect polarity connection to vehicle battery.	Disconnect clamps and re-connect with correct polarity (red to positive, black to negative).
Vehicle does not start after jump.	Vehicle battery is severely discharged or other vehicle issues.	Ensure XP-20 is fully charged. Try again. If still no start, consult a mechanic.
Device not charging from USB ports.	XP-20 battery low or incorrect cable/device.	Charge XP-20. Ensure correct USB cable is used and device is compatible.

Specifications

Specification	Value
Brand	Antigravity Batteries
Model Number	Micro-Start AG-XP-20
Amperage	4000 Amps
Peak Output Current	800 Amps
Item Weight	2 pounds
Product Dimensions	9.4 x 4 x 1.9 inches
Battery Type	Lithium Ion (1 included)
USB Output 1	5V=2A
USB Output 2	5V=1A
Input (Charging)	15V=1A
Output (DC)	12V=10A
Safety Certification	UL

Warranty and Support

For warranty information and technical support, please refer to the official Antigravity Batteries website or contact their customer service directly. Keep your purchase receipt for warranty claims.
Official Website: www.antigravitybatteries.com

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