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› [POPDEER](#) /

› [POPDEER PD-JA5 5000A Jump Starter with 150PSI Air Compressor User Manual](#)

## POPDEER PD-JA5

# POPDEER PD-JA5 Jump Starter with Air Compressor Instruction Manual

Model: PD-JA5 | Brand: POPDEER

## 1. INTRODUCTION

The POPDEER PD-JA5 is a versatile and powerful multi-functional device designed for automotive emergencies and general inflation needs. It combines a 5000A peak current jump starter, a 150 PSI portable air compressor, a 30W PD bidirectional fast-charging power bank, and an integrated LED flashlight. This manual provides essential instructions for safe and effective use of your device.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Polarity Protection:** Always ensure correct connection of jumper cables to the battery terminals. The smart jumper cable is designed with reverse polarity protection to prevent damage.
- **Spark-Proof:** The device features spark-proof technology for safe connections.
- **Temperature Range:** Operate the device within the specified temperature range of -4°F to 140°F (-20°C to 60°C).
- **Overcharge Protection:** Built-in protection prevents overcharging of the internal battery.
- **Short-Circuit Protection:** The device is protected against short circuits.
- **Over-Current Protection:** Safeguards against excessive current flow.
- **Overload Protection:** Prevents damage from excessive load.
- **High/Low Temperature Protection:** Automatically adjusts operation or shuts down in extreme temperatures.
- **Over-Voltage Protection:** Protects against voltage surges.



Figure 1: POPDEER PD-JA5 10 Safety Features

### 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x POPDEER PD-JA5 Jump Starter with Air Compressor
- 1x Smart Jumper Cables
- 1x Air Pump Hose
- 4x Gas Nozzles (various adapters for different inflatables)
- 1x Type-C Charging Cable
- 1x User Manual
- 1x Portable EVA Carrying Case



Figure 2: Package Contents

#### 4. PRODUCT OVERVIEW

The POPDEER PD-JA5 features a robust design with an intuitive interface. The main unit includes a digital display, control buttons, and various ports for its multiple functions.



Figure 3: POPDEER PD-JA5 Main Unit

### Key Components:

- **Digital Display Screen:** Shows battery level, inflation mode, and real-time pressure.
- **Control Buttons:** Power/Start, Mode/Unit Switch, Preset Pressure Adjustment (+/-), LED Lighting.
- **Air Pump Interface:** For connecting the air hose.
- **Input/Output Port (USB-C):** For charging the device and charging external devices.
- **LED Light:** Multi-mode flashlight.
- **Jumper Cable Port:** For connecting the smart jumper cables.

## 5. SETUP

### Charging the Device

Before first use, fully charge your POPDEER PD-JA5. It features 30W PD bidirectional fast charging, allowing it to recharge from 0% to 100% in approximately 1.5 hours.

1. Connect the provided Type-C charging cable to the Input/Output port on the device.
2. Connect the other end of the Type-C cable to a compatible USB wall adapter (not included) or a car charger.
3. The digital display will indicate the charging status and battery level.

## 6. OPERATING INSTRUCTIONS

### 6.1. Jump Starting a Vehicle

The PD-JA5 delivers 5000A peak current, capable of starting any 12V dead battery (up to All Gas/10.0L Diesel engines). It supports 50+ starts per charge and operates from -4°F to 140°F.

1. Ensure the PD-JA5 is sufficiently charged.
2. Connect the smart jumper cable to the jumper cable port on the PD-JA5.
3. Attach the red clamp to the positive (+) terminal of the vehicle's battery.
4. Attach the black clamp to the negative (-) terminal of the vehicle's battery or a solid, unpainted metal part of the car's chassis.
5. Once connected, the indicator light on the smart jumper cable should turn solid green, indicating a safe connection. If it flashes or shows red, check connections.
6. Start your vehicle.
7. Once the vehicle starts, immediately disconnect the black clamp, then the red clamp, and finally unplug the smart jumper cable from the PD-JA5.

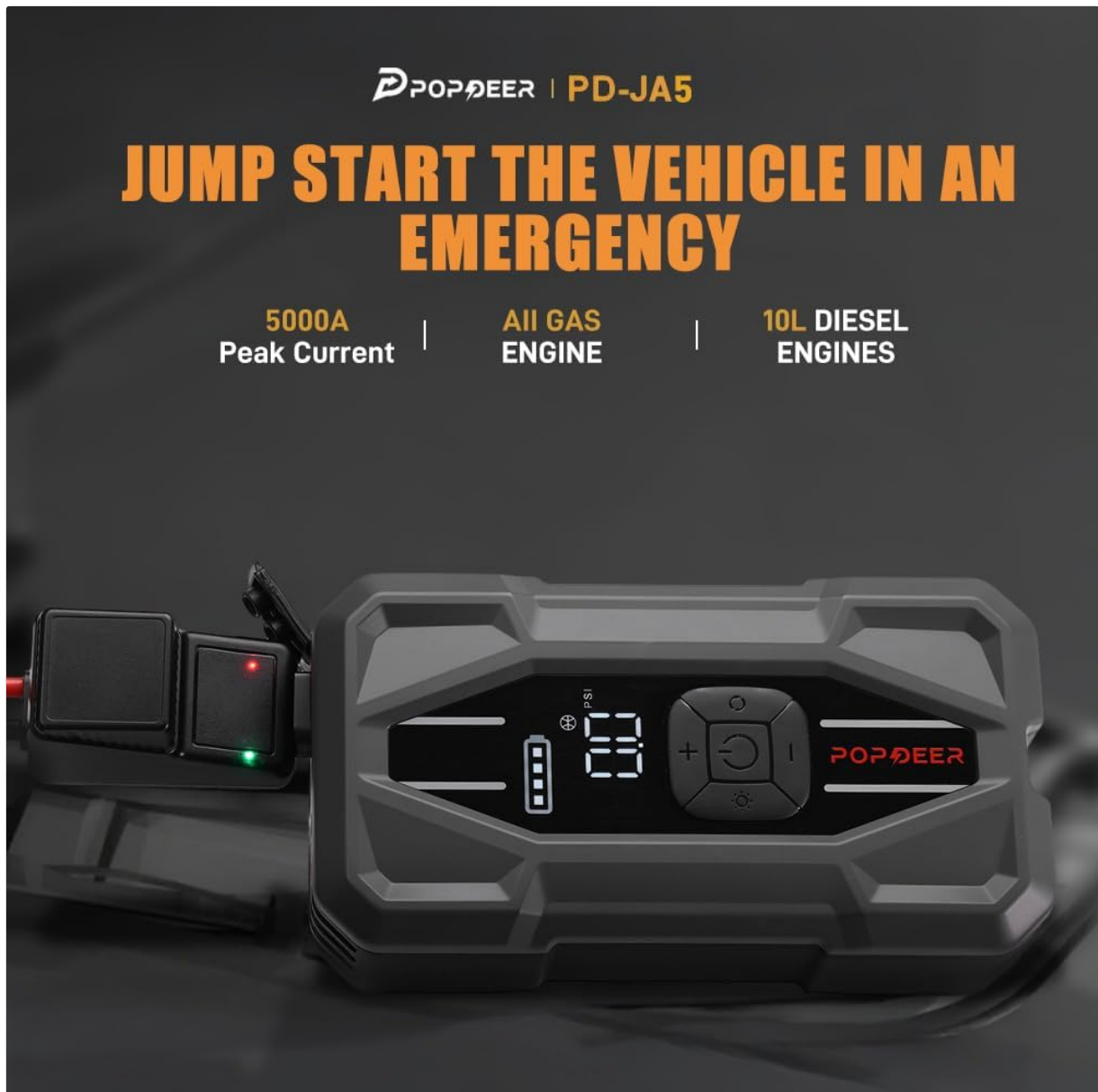


Figure 4: Jump Starting a Vehicle

The PD-JA5 is suitable for a wide range of 12V vehicles, including cars, trucks, motorcycles, RVs, boats,

and even tractors.



Figure 5: Vehicle Compatibility

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Video 1: Demonstration of jump starting a car with the POPDEER PD-JA5.

## 6.2. Using the Air Compressor

The powerful 19-cylinder air pump provides a maximum pressure of 150 PSI and an airflow of 45L/Min, quickly inflating a 195/65R15 tire from 30 PSI to 36 PSI in 1 minute.

1. Screw the air pump hose securely into the air pump interface on the PD-JA5.
2. Attach the other end of the hose to the tire valve or inflatable item. Use the appropriate gas nozzle if needed.
3. Press the Power button to turn on the device. The digital display will show the current pressure.
4. Press the Mode/Unit switch button to cycle through preset modes (Car, Bike, Motorcycle, Ball) or select a custom PSI. Use the +/- buttons to adjust the target pressure. The device supports BAR/PSI/KPA measurements.
5. Press the Power button again to start inflation. The compressor will automatically stop once the preset pressure is reached.

6. Disconnect the hose from the tire valve and then from the PD-JA5.



Figure 6: Air Compressor Modes and Units

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Video 2: Demonstration of using the portable air compressor function of the POPDEER PD-JA5.

### 6.3. Using the LED Light

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

- **Steady Light:** For general illumination during roadside repairs or camping.
- **Strobe Light:** For signaling or attracting attention.
- **SOS Mode:** For emergency signaling.

To activate and cycle through the light modes, press the LED Lighting button on the device.

### 6.4. Using as a Power Bank

The 30W PD bidirectional fast-charging USB-C port allows you to charge phones, tablets, drones, and other compatible electronic devices.

1. Connect your electronic device to the USB-C Input/Output port on the PD-JA5 using a compatible charging cable.

2. The PD-JA5 will automatically begin charging your device.



Figure 7: Charging External Devices

## 7. MAINTENANCE

To ensure the longevity and optimal performance of your POPDEER PD-JA5, follow these maintenance guidelines:

- **Regular Charging:** Recharge the device every 3-6 months, even if not in use, to maintain battery health.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. The operating temperature range is -4°F to 140°F (-20°C to 60°C).
- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Periodically inspect the jumper cables and air hose for any signs of wear or damage. Replace if necessary.

# WORKING TEMPERATURE

-4°F-140°F(-20°C-60°C)



Figure 8: Working Temperature Range

## 8. TROUBLESHOOTING

If you encounter issues with your POPDEER PD-JA5, refer to the following common problems and solutions:

- **Device Not Turning On:** Ensure the device is charged. If the battery is completely depleted, it may take a few minutes of charging before it powers on.
- **Vehicle Not Jump Starting:** Check that the smart jumper cables are correctly connected to the battery terminals (red to positive, black to negative/ground). Ensure the smart cable indicator is solid green. The vehicle's battery might be severely damaged and require professional assistance.
- **Air Compressor Not Inflating:** Verify that the air pump hose is securely attached to both the device and the tire valve. Check that the correct pressure unit and target pressure are set on the digital display. Ensure the device has sufficient battery charge.
- **External Device Not Charging:** Confirm that your device is compatible with USB-C charging and that the cable is functioning correctly.

For further assistance, please contact customer support.

## 9. SPECIFICATIONS

Feature	Specification
Brand	POPDEER
Model	PD-JA5
Peak Output Current	5000 Amps
Air Compressor Pressure	150 PSI (Max)
Airflow	45 L/Min
Charging Power	30W PD Bidirectional Fast Charging
Battery Type	Lithium Polymer (4 batteries included)
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Product Dimensions	5.1"D x 2"W x 5"H
Item Weight	14.4 ounces
Automotive Fit Type	Universal Fit

## 10. WARRANTY AND SUPPORT

Your POPDEER PD-JA5 comes with a 24-Month Hassle-free Warranty and Lifetime Technical Support Service. For any questions, concerns, or technical assistance, please refer to the contact information provided in your product packaging or visit the official POPDEER website.