

## AstroAI M12-F

# AstroAI M12-F 5000A Jump Starter with Air Compressor User Manual

Model: M12-F | Brand: AstroAI

## 1. INTRODUCTION & OVERVIEW

The AstroAI M12-F is a powerful and versatile tool designed for automotive emergencies and maintenance. It integrates a 5000A peak current jump starter, a 150 PSI smart tire inflator, a portable charger, and a professional illumination system into a single, dependable unit. Equipped with 10 comprehensive safety protections, this device ensures security and peace of mind for outdoor adventures, roadside emergencies, and daily commutes.

## 2. PRODUCT FEATURES

### 2.1. Surging Power for Every Need

The AstroAI M12-F delivers a 5000A peak current, capable of quickly reviving all gas engines and 10L diesel 12V batteries. It can jumpstart a wide range of vehicles, including lawn mowers, motorboats, motorbikes, cars, SUVs, and ATVs. The device performs reliably in extreme temperatures ranging from -4°F (-20°C) to 122°F (50°C).



Figure 1: The AstroAI M12-F is designed to operate effectively in a wide range of temperatures, from freezing cold to extreme heat.

### 2.2. Smart Inflation System

Featuring a 19mm cylinder and smart pressure control technology, the inflator can inflate a 195/65R15 tire from 30 PSI to 36 PSI in approximately 70 seconds. The included 60cm extension hose and 4 professional nozzles accommodate various inflation needs for tires, balls, and air cushions. Note: This system is not suitable for high-pressure or large-volume inflatables such as swim rings or air canoes.



Figure 2: The smart inflation system quickly inflates tires, displaying real-time pressure on the screen.

### 2.3. Programmable Inflation

Use the 'M' button to switch between pressure units (PSI, kPa, BAR). Press the '+' and '-' buttons to set a desired



pressure between 3 and 150 PSI. The inflator will automatically shut off once the preset pressure is reached, preventing overinflation. Smart temperature control keeps the device within a safe operating range. For optimal performance, allow the device to rest for 10–15 minutes after each 10–15 minutes of continuous use.

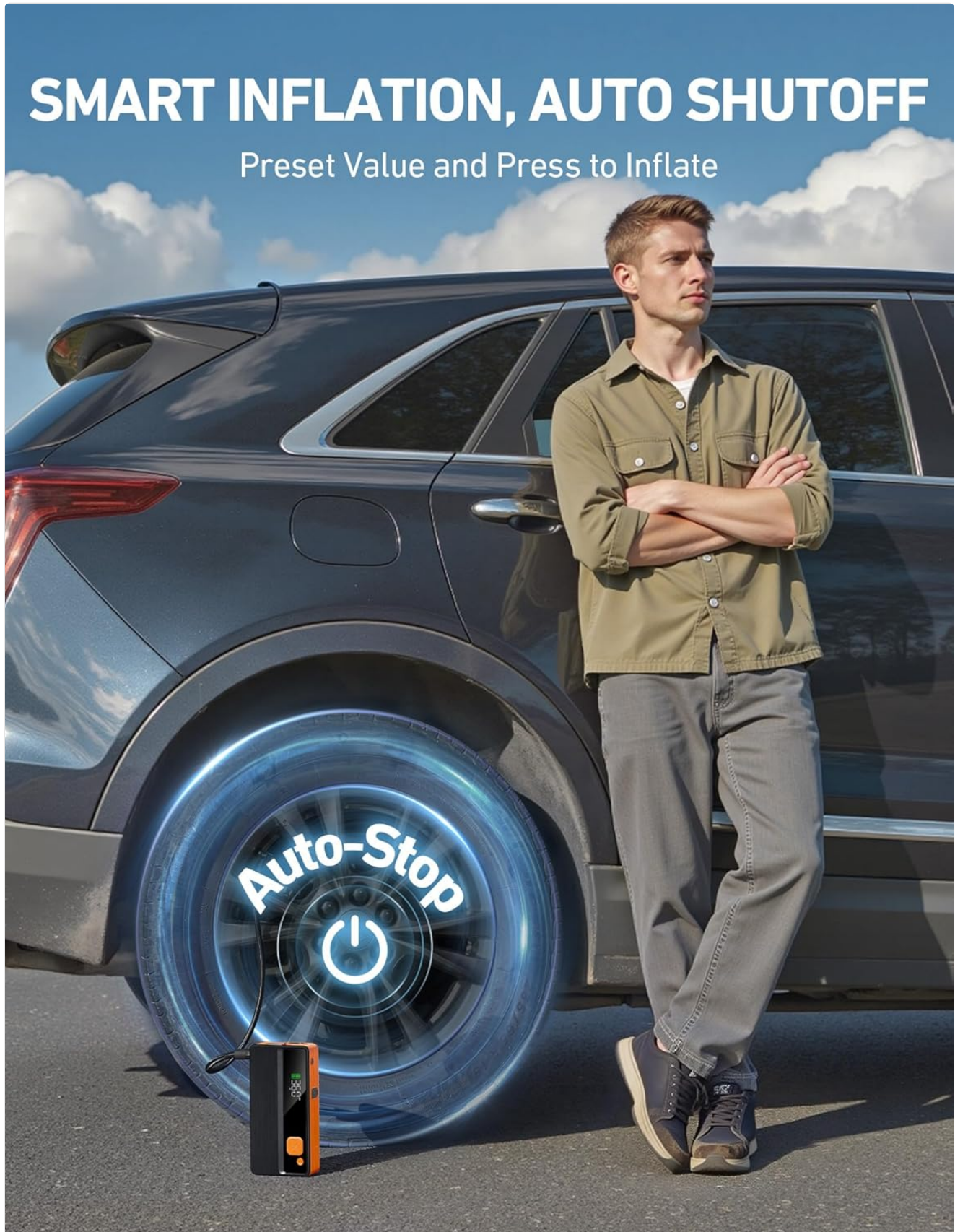


Figure 3: The auto-shutoff feature ensures precise inflation and prevents over-pressurization.

## 2.4. Power Bank for Double Support

The USB-A 18W PD quick charge system provides 5V, 9V, or 12V output, suitable for charging phones, tablets, headphones, watches, and other electronic devices. Its high-capacity battery cells and the Type-C port offer both

input and output functionality, allowing the device to serve as a power bank while also being rechargeable.



Figure 4: The device functions as a versatile power bank, keeping your essential electronics charged on the go.

## 2.5. All-Round Safety Protection System

A smart chip provides 10 comprehensive safety protections: reverse polarity, overcurrent, overcharge, over-discharge, high/low temperature, reverse connection, overvoltage, overload, short circuit, and spark-proof protection. These features ensure safe operation and protect against common errors or hazards.



Figure 5: The integrated smart chip offers multiple layers of protection for secure and reliable use.

## 2.6. Professional-Quality Accessory Kit & LED Light

The device includes a pro-level LED light with three modes: illumination (steady light), strobe (flashing light), and SOS (Morse code signal). This provides versatile lighting for various situations. The product comes with a smart battery clamp, one USB cable, and a set of professional inflation accessories (one extension hose and four air nozzles). All accessories can be neatly stored in the included EVA storage box for organization and easy access.



# 3-IN-1 EMERGENCY FLASHLIGHT



FLASHLIGHT



STROBE



SOS



Figure 6: The multi-mode LED flashlight provides essential illumination and signaling capabilities.

## 3. SETUP & INITIAL CHARGING

Before first use, fully charge the AstroAI M12-F using the provided USB-C cable. Connect the USB-C cable to the device's Type-C port and the other end to a suitable USB power adapter (not included). The display will indicate the charging status. Ensure the device is fully charged for optimal performance, especially before storing it or taking it on a trip.



# ROBUST JUMP STARTING TOOL



Figure 7: The AstroAI M12-F comes with essential accessories for immediate use.

## 4. OPERATING INSTRUCTIONS

### 4.1. Jump Starting a Vehicle

1. **Connect Smart Clamps:** Plug the smart battery clamp into the jump starter's port.
2. **Attach to Battery:** Connect the red clamp to the positive (+) terminal of the vehicle battery and the black clamp

to the negative (-) terminal. Ensure a secure connection.

3. **Check Indicator:** Verify that the indicator light on the smart clamp illuminates green, indicating a correct connection and readiness to jump start. If no light or a red light appears, check connections and polarity.
4. **Start Vehicle:** Start your vehicle's engine.
5. **Disconnect:** Once the engine starts, immediately remove the smart clamps from the vehicle battery, then disconnect them from the jump starter.



Figure 8: Follow these simple steps to safely jump start your vehicle.

Video 1: This video demonstrates the process of using the jump starter to start a car.

## 4.2. Inflating Tires

1. **Connect Air Nozzle:** Screw the extension hose onto the device and attach the appropriate nozzle to the tire valve.
2. **Choose Unit & Preset Value:** Turn on the device. Use the 'M' button to select the desired pressure unit (PSI, kPa, BAR) and the '+' / '-' buttons to set the target pressure.
3. **Press to Start:** Press the power button to begin inflation.
4. **Auto Shut-off:** The inflator will automatically stop once the preset pressure is reached.



Figure 9: Detailed steps for using the tire inflator feature.

## 4.3. Using as a Power Bank



Connect your electronic device to the USB-A or USB-C output port on the AstroAI M12-F using a compatible charging cable. The device will automatically begin charging your connected device.

#### 4.4. Using the LED Flashlight

Press and hold the flashlight button to turn the LED light on. Briefly press the button again to cycle through the three modes: steady illumination, strobe, and SOS. Press and hold the button to turn the flashlight off.

### 5. MAINTENANCE

- **Regular Charging:** To prolong battery life, fully charge the device every 3-6 months, even if not in use.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided EVA storage box to keep all accessories organized and protected.
- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Temperature Control:** Avoid operating the device in temperatures outside its specified range (-4°F to 122°F).

### 6. TROUBLESHOOTING

The AstroAI M12-F is designed with multiple safety features to prevent common issues. If you encounter problems, refer to the following:

- **Device Not Turning On:** Ensure the device is sufficiently charged.
- **Jump Start Failure:** 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 the vehicle battery is completely dead, you may need to wait a few minutes after connecting before attempting to start.
- **Inflation Issues:** Verify the air hose and nozzle are securely attached to both the device and the tire valve. Check that the desired pressure is set correctly.
- **Safety Protections Activated:** The device's smart chip will activate protections (e.g., reverse polarity, overcurrent, high/low temperature) if an unsafe condition is detected. Refer to the indicator lights on the smart clamp for specific warnings. Disconnect and re-evaluate the situation before attempting further operation.

### 7. SPECIFICATIONS

Feature	Specification
Brand	AstroAI
Model	M12-F
Peak Amperage	5000 Amps
Tire Inflator Pressure	150 PSI
Engine Compatibility	All Gas & 10.0 L Diesel 12V Batteries
USB-A Output	18W PD (5V, 9V, 12V)
Battery Type	Lithium Polymer
Operating Temperature	-4°F to 122°F (-20°C to 50°C)



Feature	Specification
Item Weight	1.38 kg
Manufacturer	AstroAI

## 8. WARRANTY & SUPPORT

For warranty information, product support, or any inquiries, please refer to the contact details provided in your product packaging or visit the official AstroAI website. Keep your purchase receipt for warranty claims.