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Atlas Portable Tire Inflator & Power Bank

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Product Introduction

The Atlas Portable Tire Inflator & Power Bank is a compact, all-in-one inflation and power solution built to keep you ready for the unexpected. Featuring a 7500mAh built-in battery, 120W rated power, and up to 150 PSI of air pressure, it inflates car, motorcycle, and bicycle tires, sports balls, and other custom items with precision. A smart pressure knob, four preset modes, and a full-colour digital display make setting the target pressure effortless, while integrated storage keeps the air hose, inflation needle, and nozzle adapters neatly organised. Doubling as a USB power bank with an emergency flashlight, it is a truly versatile companion for the road, the trail, and everyday life.



Package Contents

1. Atlas Portable Tire Inflator & Power Bank
2. Air Hose

3. Inflation Needle
4. Inflation Nozzle Switcher
5. French Valve Adapter
6. Charging Cable

Safety Instructions

Warning:

1. Don't immerse the device, air hose, or charging port in water or any liquid.
2. Don't expose the device to fire, high heat, or direct sunlight for extended periods.
3. Don't disassemble, modify, or attempt to repair the device or its built-in battery.
4. Don't drop, crush, or subject the device to strong impacts.
5. Don't continue inflating past the recommended pressure for the tire or object; over-inflation may cause bursting and serious injury.
6. Don't touch the cylinder or air hose immediately after inflation, as they become hot during operation.
7. Don't operate the inflator continuously beyond the recommended runtime; allow the motor to cool between uses to prevent overheating and motor damage.
8. Don't use the device in flammable, explosive, or corrosive environments.
9. Don't charge the device with a damaged cable or non-compliant power source exceeding the rated USB-C input.
10. Keep small parts such as the inflation needle and nozzle adapters away from children to avoid choking hazards.
11. Don't shine the flashlight directly into eyes.
12. Don't use the device while driving; pull over safely before inflating tires.
13. Stop using the device immediately and safely dispose of it if the built-in lithium battery shows swelling, leakage, unusual heat, odour, or deformation.
14. Keep the device out of reach of children and do not allow unsupervised use; the cylinder, motor, and internal lithium battery can pose burn, injury, and electrical hazards.

15. Charge the device only with the supplied charging cable and a compatible/certified USB-C power adapter that meets the stated 5V/1.6–2A input rating.
16. Do not use the USB-C power adapter or power source outdoors or in wet conditions; the adapter is intended for indoor, dry-location use only.
17. The built-in lithium battery includes short-circuit, overcurrent, and overvoltage protection circuitry; however, do not intentionally short the output terminals or connect non-compliant loads.

Attention:

1. Please follow the instructions in this manual before use.
2. Operate the device only within the specified temperature range of -10°C to 40°C.
3. The device will automatically shut off when battery level is low, when the preset pressure is reached, or under high-temperature conditions.
4. Please don't charge the device and use the inflator or USB output at the same time.
5. When stored for long periods without use, recharge the device every 6 months to preserve battery life.
6. Verify the correct pressure unit (PSI, BAR, kPa, kg/cm²) and target value before starting inflation.
7. Ensure the air hose and valve adapters are securely connected before operation to prevent air leaks.
8. Store the device and its accessories in the built-in compartment in a dry, cool place away from dust and moisture.
9. In case of any malfunction or warranty claim, please contact customer service.



Usage & Operation

1. Charging the Inflator

Connect the supplied charging cable to the USB-C input port on the inflator.

Plug the other end into a 5V DC power source rated at 1.6–2A, using only the supplied cable and a compatible/certified USB-C adapter meeting the stated input rating.

The battery status indicator on the display shows the charging progress.

Disconnect the cable once the battery is fully charged.

For best performance, fully charge the unit before first use.

2. Inflating a Tire or Object

Remove the air hose from the built-in storage compartment and screw it firmly onto the valve of the item you want to inflate.

If needed, attach the inflation needle, nozzle switcher, or French valve adapter for balls, bicycles, or other items.

Press the power button to turn the inflator on.

Press the mode button to select the correct preset (car, motorcycle, bicycle, ball, or custom).

Rotate the smart pressure knob to set your desired target pressure.

Press the start button to begin inflation; the unit will stop automatically once the target pressure is reached.

3. Changing Pressure Units

With the display on, press and hold the unit button to cycle through the available pressure units.

Choose between PSI, bar, kPa, or kgf/cm² depending on your preference.

The selected unit will be shown next to the pressure value on the display.

4. Using the Power Bank Function

Open the port cover on the side of the inflator to reveal the USB-A output.

Connect your device's charging cable to the USB-A port.

The inflator will automatically begin supplying 5V / 2A power to the connected device.

Disconnect the device once charging is complete to conserve battery.

5. Using the Emergency Flashlight

Press the flashlight button once to turn on continuous lighting mode.

Press again to switch to SOS flashing mode for emergency signalling.

Press once more to turn the flashlight off.

Use responsibly and avoid shining the light directly into anyone's eyes.

Display & Controls

The full-colour display shows the target pressure on top and the real-time (RTP) pressure below, along with a battery-level indicator. Preset mode icons around the dial let you choose the intended object, and the pressure knob and buttons on the front adjust the target value and start or stop inflation.



1. Motorcycle preset mode

2. Bicycle preset mode

3. Ball preset mode

4. Custom preset mode

5. Car preset mode

6. Target pressure value

7. Pressure units (PSI / bar / kPa / Kgf/cm²)

8. Real-time pressure (RTP)

9. Battery level indicator

10. Pressure adjustment knob

11. Mode / unit selection button

12. Start / stop button

Specifications

Battery Capacity	7500mAh
Rated Power	120W
Air Pressure	150 PSI
Rated Motor Speed	18000 RPM
Operating Voltage	9V-12.6V DC
Cylinder Size	30mm
Motor Type	Brushed Motor
Motor Lifespan	Approx. 120 full inflation cycles
Tire Compatibility	Car, Motorcycle, Bicycle, Ball, Custom
Pressure Units	PSI, bar, kPa, kgf/cm²
Operating Noise	≤85dB
Operating Temperature	-10°C - 40°C
USB-C Input	5V/1.6-2A DC
USB-A Output	5V/2A
Flashlight Modes	Continuous, SOS
Air Hose Length	30cm
Cylinder & Bracket Material	Aluminum Alloy
Product Size	14 × 10 × 6cm
Product Weight	753g
Model Number	PWA283

Care & Maintenance

1. Keep Your Inflator in Top Condition

Allow the inflator to cool for several minutes after extended use before storing it away.

Wipe the housing with a soft, dry cloth; never immerse the unit in water or any liquid.

Coil the air hose loosely and return all adapters to the built-in storage compartment to avoid loss.

Store the product in a cool, dry place away from direct sunlight and extreme temperatures.

Recharge the battery at least once every 6 months when not in use to preserve battery health.

Do not operate the inflator continuously for longer than the motor is designed for; allow it to rest between inflations.

Keep the USB-C input and USB-A output ports clean and free of dust or debris.

Do not attempt to disassemble, modify, or repair the unit yourself.

Frequently Asked Questions

1. What can I inflate with the Atlas?

The Atlas is designed for car, motorcycle, and bicycle tires, sports balls, and other custom inflatables up to 150 PSI. Use the matching preset mode and adapter for best results.

2. How long does it take to fully charge the inflator?

Charging time depends on your power source, but the unit accepts a 5V DC input at 1.6–2A via USB-C. Use a compatible adapter for the fastest results.

3. Will the inflator stop automatically at my set pressure?

Yes. Once your target pressure is reached, the auto shut-off system stops the motor to prevent over-inflation.

4. Can I use it as a power bank while it is inflating?

For optimal performance, use the power bank output and the inflation function separately. This keeps the battery cool and ensures full inflation performance.

5. What is the operating temperature range?

The inflator is designed to operate between -10°C and 40°C. Avoid using or storing it outside this range.

6. What is included in the box?

The package includes the inflator, air hose, inflation needle, inflation nozzle switcher, French valve adapter, charging cable, and this user manual.

Troubleshooting

Problem	Likely Cause	Solution
Inflator will not power on	Battery is depleted	Charge the unit fully using the supplied USB-C cable and try again.
Unit turns off during use	Battery low or overheat protection engaged	Allow the inflator to cool and recharge before resuming inflation.
Motor runs but tire is not inflating	Hose or adapter not properly attached to the valve	Reconnect the hose firmly to the valve; ensure the correct adapter is used.
Display shows an incorrect pressure reading	Hose not fully sealed to the valve	Tighten the hose connection to the valve; once air flow stabilises, the display will show an accurate reading.
Auto shut-off does not activate	Target pressure set higher than actual pressure	Reduce the target pressure to a realistic value and restart the inflation cycle.
Inflator is very loud during operation	Normal motor operation at high pressure	Operating noise is up to 85dB; this is normal. Use in a well-ventilated area.
Battery drains quickly	Continuous heavy inflation depletes power	Recharge fully and pause between inflations to allow the unit to rest.

Problem	Likely Cause	Solution
Device connected to USB-A is not charging	Cable damaged or device incompatible	Try another cable and confirm the device supports 5V / 2A USB-A charging.
Flashlight does not turn on	Battery too low, or flashlight was toggled off by a previous press	Charge the inflator and press the flashlight button once to cycle through continuous, SOS, and off modes.
Pressure unit will not change	Button not held long enough	Press and hold the unit button until the display cycles to the desired unit.
Air leaks from the valve after inflation	Adapter loosened before removal	Remove the hose promptly and firmly after the auto shut-off activates.
Inflator will not charge	Faulty cable or unsuitable power source	Use a proper 5V DC / 1.6–2A USB-C source and check the cable for damage.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

Email: **hey@powerology.me**

Website: **www.powerology.me**

Instagram: **powerology_official**

Facebook: **powerology.ME**