



**Powerology**  
**Super Compact Tire Inflator**

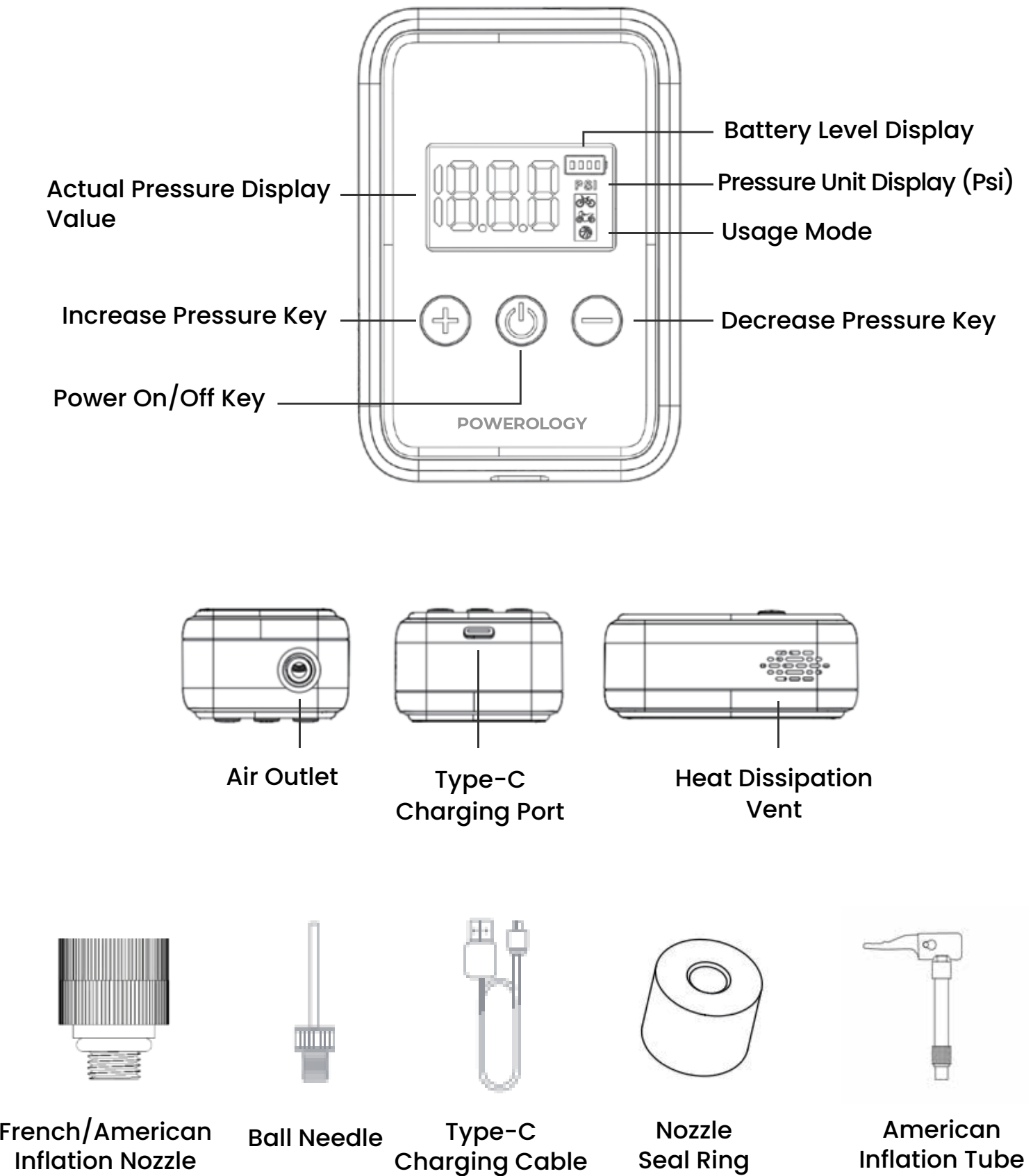
SKU: P25CMAPBK

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Before using the product, please carefully read this User Manual to guarantee correct usage and keep it secure for future reference.

## Schematic View



# Usage Warning

## A. For Tires with Existing Air Pressure:

1. Activate the device by turning on the power.
2. Engage the inflation pump to begin operation.
3. Attach the tire valve and proceed with inflation.

## B. For Completely Flat Tires:

1. the tire valve nozzle to the tire.
2. Start the inflation pump to inflate the tire.



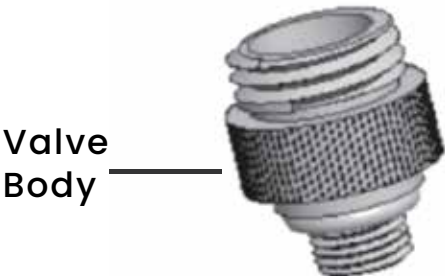
French Bicycle Valve  
Installation Method  
(Assemble according  
to the sequence shown  
in the diagram)



Nut



Sealing  
Ring



Valve  
Body

Sealing Ring Installation  
1. Install the sealing ring with  
the smaller opening facing  
outward.  
2. Tighten the nut to ensure a  
secure fit.



American Bicycle Valve  
Installation Method

1. Position the sealing ring  
with the smaller opening  
facing outward.
2. Securely tighten the nut.
3. Assemble the components  
in the order shown in the  
diagram.



Nut



Usage  
Warning



Valve  
Core



Valve  
Body

Sealing Ring Installation  
1. Install the sealing ring with  
the larger opening facing  
outward.  
2. Tighten the nut to ensure a  
secure fit.

## Note

1. After the air pump operates continuously for three minutes, it must rest for eight minutes before being used again.
2. The air pump's outlet may become hot. Avoid touching it.
3. The software is programmed to automatically shut down after continuous operation for two and a half minutes as a safety feature.
4. To resume operation, press the start button again to restart the air pump.

## Instructions for Use

1. Remove the product from its packaging.
2. Attach the hose or nozzle by screwing it onto the outlet side.
3. Activate the device by pressing and holding the power button for 3 seconds.
4. Connect the outlet nozzle onto the corresponding device.
5. Quickly press the "-" button to choose the desired inflation mode.
6. Modify the pressure setting using the "+" and "-" buttons as required.
7. Once inflation is complete, turn off the device by pressing and holding the power button, then disconnect the hose.
8. Keep the product in a dry location to avoid moisture damage.

## Charging and Battery Indicator

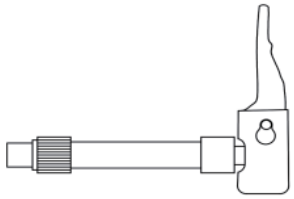
### A. Charging

Utilize a 5V/2A charger. Connect it to the Type-C charging port of the device. The battery icon will turn on and begins to cycle to indicate charging is in progress. Once fully charged, the icon will stop cycling, signaling that the battery is fully charged.

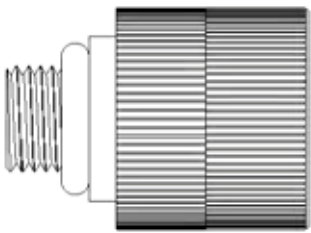
## B. Low Battery Indicator

If the battery level falls below the designated voltage, the battery display will flash. The device will continue to operate until the voltage falls below the shutdown threshold, at which point it will power off automatically. Recharge the device when this occurs.

## Usage of Accessories



**[A]** American-style Nozzles: Suitable for mountain bikes, electric bikes, motorcycles, and cars. Attach the nozzle directly to the valve and proceed with inflation.



**[B]** French Nozzle Conversion: Used for road bikes and some mountain bikes. Connect the French nozzle conversion head to the pump hose before inflating.



**[C]** Inflating Needle for Sports Equipment: Ideal for inflating sports balls such as basketballs and soccer balls. Attach the needle to the pump hose, then insert it into the ball's air hole to inflate.

## Pressure Detection

When the device is powered on and properly connected, the displayed pressure accurately displays the actual pressure of the item being tested.

## Recommended Pressure

Always verify the required pressure for the inflatable item before use to ensure safety. Avoid over-inflation, as it may cause the item to burst and lead to personal injury.

Item	Product Type	Recommended Pressure
Bicycle	Folding Bike Tire	45–50psi
	12" ,14" ,16" Bicycle Tires	30–50psi
	20" ,22" ,24" Bicycle Tires	40–50psi
	26" ,27.5" ,29" Bicycle Tires	45–65psi
	700c Road Bike Hard Tire	100–110psi
	700c Road Bike Soft Tire	100–130psi
Motorcycle	Motorcycle, Electric Motorcycle Wheel Rim	30–43psi
Ball	Basketball	7–9psi
	Soccer Ball	8–16psi
	Volleyball	4–5psi
	Rugby	2 –14psi

## Mode Switching

 Press the "-" key to cycle through three inflation scenarios.


There is no special mode. The device is preset to 45 psi, but the pressure can be adjusted freely between 3-150 psi before use.


 **Bicycle Mode:** Default setting at 45 psi, adjustable from 145-30 psi.

 **Motorcycle Mode:** Default setting at 35 psi, adjustable from 25-45 psi.


 **Ball Mode:** Default setting at 8 psi, adjustable from 4-16 psi.

## Pressure Adjustment

 After selecting the scenario mode, briefly press the '+' button to fine-tune the preset pressure value. For rapid adjustments, hold down the '+' button.

 To decrease the pressure in a selected scenario mode, press the '+' button to make the number flash, then press the '-' button to reduce the pressure.

## Start Inflation

 **1.** Press the 'Start/Stop' button briefly to begin inflation. The display will then show real-time pressure changes.

**2.** Be aware that the inflation process produces noise levels of 75-80 decibels. Extended use may cause significant heating of the



high-pressure hose and the device body. Avoid prolonged contact to prevent discomfort.

## Stop Inflation



- 1.** The inflation pump will automatically cease operation once the preset pressure value is achieved.
- 2.** During inflation, you may manually stop the process at any time by pressing the 'Start/Stop' button.

## Important Notes

- 1.** For inflatable items such as balloons, toy balls, and swim rings, the pump may not automatically stop if the required inflation pressure is below the pump's minimum range. In such cases, preset pressure settings cannot be relied on to stop inflation automatically. Please exercise caution while inflating these items to avoid overinflation.
- 2.** When fully charged and at an ambient temperature of 25°C, the tire inflator operates continuously for approximately 2 minutes without a load.
- 3.** Higher pressure loads or lower ambient temperatures may reduce the operational endurance of the inflator.
- 4.** To power off the device, press and hold the power button for 3 seconds.
- 5.** The device will automatically shut down after 120 seconds of inactivity.
- 6.** Always verify the required pressure value for the item to be inflated to avoid over-inflation and the risk of explosion, which could cause injury.

- 7.** The product contains a non-removable lithium battery. Do not discard it in fire or expose it to high temperatures to avoid overheating, impact damage, spontaneous combustion, or explosion. Do not store it in vehicles or fold the inflation hose during use to ensure proper airflow.
- 8.** The operator must remain present during inflation to monitor for potential overpressure or other unplanned events. Leaving the site could result in an unsafe situation.
- 9.** Keep the machine away from moisture, heavy impacts, water, and sand intrusion to prevent damage.
- 10.** The inflation pump uses a DC motor, which may produce sparks during operation. Do not place it near flammable materials or gases.
- 11.** Ensure that the storage temperature does not drop below  $-10^{\circ}\text{C}$  or exceed  $60^{\circ}\text{C}$ . Extreme temperatures can reduce the product's lifespan and harm the internal battery.
- 12.** To prevent damage, recharge the battery at least once every three months during periods of prolonged inactivity.
- 13.** This product is not a toy. Children must not use it. Always maintain a safe distance from children when inflating objects.
- 14.** Before setting the inflation pressure, ensure the correct unit of measurement is selected to avoid dangerously high pressure. Common unit conversions: 1 bar = 14.5 psi, 1 bar = 100 kPa.

## Specifications

Battery Capacity	1000mAh (500mAh × 2)
Input	5V/1.5A
Charging Port	Type-C
Recharge Time	1 Hour 15mins
Inflation Pressure	3Psi (Minimum), 110Psi (Maximum)
Pressure Accuracy	±0.15bar
Inflation Speed	12-15L/min
Product Weight	157g
Product Dimensions	75.8×51.8×35.9mm
Operating Temperature	Charging: 0°C to 60°C, Discharging: -10°C to 45°C
Storage Temperature	-10°C to 60°C

## Troubleshooting

**[1] Issue:** Slow inflation speed

**Solution:** Check if the battery is fully charged. Inspect the hose for air leaks and ensure tight connections at both ends of the hose.

**[2] Issue:** Unable to inflate despite the device being turned on

**Solution:** Confirm that the battery is fully charged. Verify if the current tire pressure is higher than the pre-set value.

**[3] Issue:** Unable to adjust pressure up or down

**Solution:** Ensure that the device is in the correct scenario mode. Select the pressure-free mode (with no illuminated icons), then adjust the preset pressure within the range of 3-150 psi.

**[4] Issue:** Normal inflation but the pressure reading shows zero

**Solution:** Items like balloons or products with low pressure might be outside the device's measurable range.

**[5] Issue:** Pump automatically shuts off after attaching the nozzle.

**Solution:** Long-press the "Power" button to turn it on again.

**[6] Issue:** Air leakage when connecting the hose

**Solution:** Tighten the hose to ensure a secure connection.

## Error Code Guide

**Er0:** Sensor calibration error detected during the calibration process.

**Er1:** Battery low voltage alarm, detected during the discharge process. Displays 'LO' or 'Er1', shuts down all outputs, and enters sleep mode.

**Er2:** Motor overcurrent protection, detected when the motor is running. Displays 'Er2', stops the motor, and enters standby mode.

**Er3:** Motor short circuit protection, detected when the motor is running. Displays 'Er3', stops the motor, and enters standby mode.

**Er4:** Motor over-temperature protection, detected when the motor is running. Displays 'Er4', stops the motor, and enters standby mode.

**Er5:** Motor NTC (Negative Temperature Coefficient) damaged, open or short circuit, detected when the motor is running. Displays 'Er5', stops the motor, and enters standby mode.

**Er6:** Sensor NTC damaged, open or short circuit, detected during the power-on process. Displays 'Er6', stops the motor, and enters standby mode.

**Er7:** Pressure exceeds 150 psi, detected during the pressure measurement process. Displays 'Er7' as a reminder.

**Er8:** Battery over-temperature (high or low), detected during the charge/discharge process.

During discharge, shuts down all outputs and enters standby mode. During charging, stops charging and displays the error code until the protection is removed.

**Er9:** Reserved for future use or unknown errors.



## **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 **[powerology.me/warranty](https://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:  
**[powerology.me/warranty](https://powerology.me/warranty)**

## **Contact Us**

If you have any questions about this Privacy Policy, please contact us at: **[hey@powerology.me](mailto:hey@powerology.me)**

Website: **[powerology.me](https://powerology.me)**

Instagram: **[powerology\\_official](https://www.instagram.com/powerology_official)**

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