



**Powerology**

**Jump Starter, Air Inflator  
& OBD II Diagnostics**

SKU: PPBCHA95BKBU

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## Product Overview

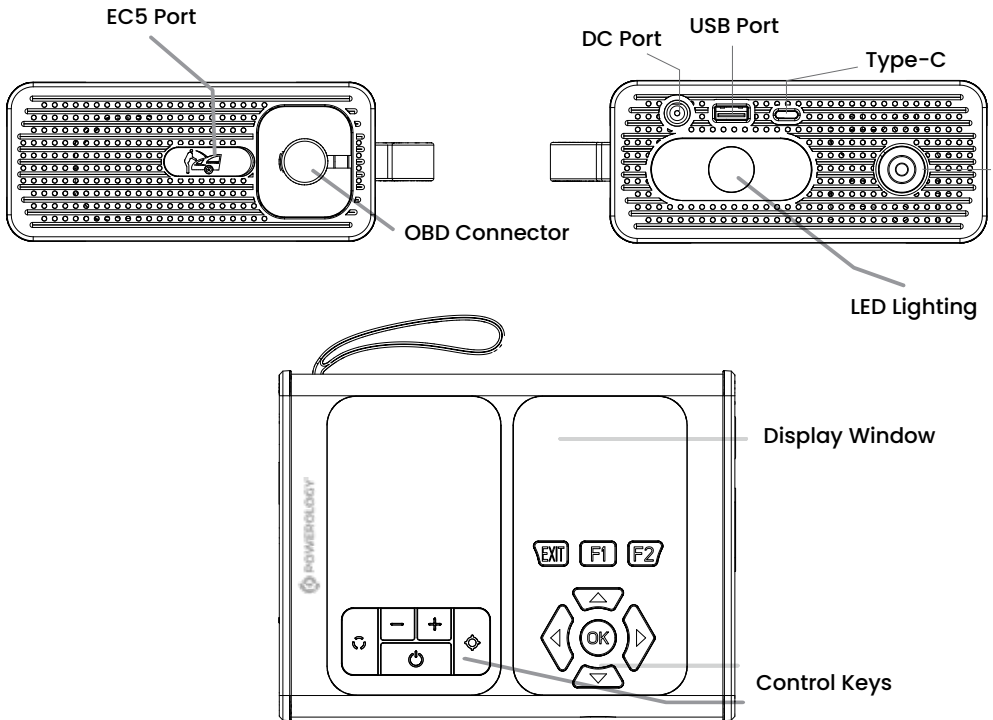
The Powerology Jump Starter & Tire Inflator with OBD II combines multiple emergency solutions in one convenient device. This all-in-one tool serves as a jump starter, tire inflator, power bank, and OBD II car fault diagnostic tool, making it ideal for 12V cars and motorcycles. With a fast PD QC charging system, the unit features a USB-C PD 20W input and a USB-A QC 21.6W output, enabling recharging in under four hours. The smart inflation system includes five preset modes (car, motorcycle, bicycle, ball, and custom), with an automatic shut-off at the target pressure for added convenience. The device also features a digital pressure display with 0.01-bar precision, showing PSI, BAR, KPA, and kg/cm<sup>2</sup> units. Equipped with an emergency light featuring an SOS strobe and the ability to scan for OBD II error codes, this unit is a must-have for any car owner seeking a reliable, multifunctional tool for emergencies.

## Specifications

Model	PPBCHA95
Battery Capacity	15200mAh/56.24Wh
Peak Current	1000A
DC Input	12V
Inflation Pressure	150 PSI Max
Pressure Units	PSI/BAR/KPA/Kg/cm2
USB-C Input	PD 20W (5V/2.2A, 9V/2A, 12V/1.8A)
USB-A Output	QC 21.6W

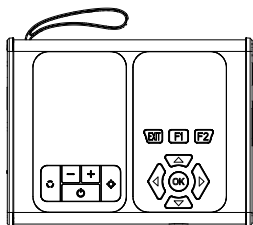
LED Light	1W white + SOS
Recharge Time	4H
Charging Port	Type-C
Storage Temperature	-20°C to 60°C
Product Size	63×143×188.5mm

## Schematic view

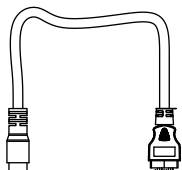


- Power/Start
- Mode Switch
- Lighting/Unit
- Parameter Adjustment
- Parameter Adjustment

## Package Contents



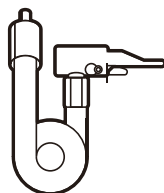
Air Pump x1



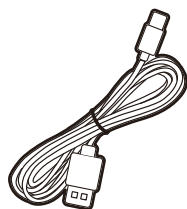
OBD Connections Cable x1



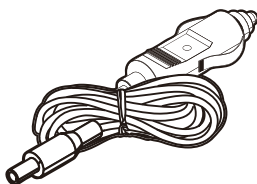
Storage Bag x1



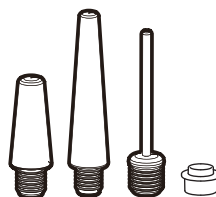
Air Tube x1



Type-C Cable x1



Lighter Charging Cable x1






Adapters x4

## Air Pump Modes

5 Modes Available: Car, Motorcycle, Bicycle, Ball, Custom

How to Use:

1. Connect the inflation tube to the air pipe socket.
2. Attach the air nozzle to the tire valve and press the handle.
3. Long-press the power button  to turn on the device and press the mode button  to select the desired inflation mode, and press the unit select button  to select the inflation unit.
4. Press the "+" or "-" buttons to adjust the tire pressure.
5. Press the power button to activate the air pump, which will stop automatically once the target pressure is reached.

Pressure Units Available:

PSI / BAR / KPA / Kg/cm<sup>2</sup>

Unit Conversion:

1 BAR = 1.00 KPA = 14.5 PSI = 1.0197 Kg/cm<sup>2</sup>

## Default pressure values



Basketball

0.60



Bicycle

2.06



Motorcycle

2.40



Car

2.50

## Button Functions

### 1. On/Off

**a.** Press and hold the power button for 2.5 seconds to turn on the device. The screen will light up.

**b.** During operation, press and hold the power button for 2.5 seconds to turn off the device.

**c.** After 120 seconds of inactivity, the product will enter power-saving sleep mode automatically.

### 2. Mode Switch

**a.** This product offers 5 inflation modes: Car, Motorcycle, Bicycle, Ball, and Custom.

**b.** Easily switch between modes by pressing the mode button.

**c.** Once a mode is selected, the air pressure settings will automatically adjust based on the default pressure for that mode.


### 3. Custom Mode

Press the mode button to switch to the custom mode. In this mode, if the mode icon on the screen is not lit, users can manually set the tire

pressure according to their preferences. The system will automatically memorize the settings for future use.

#### 4. Lighting/Unit Switch

**a.** This product is equipped with an LED lighting function to help you work in dark environments.

**b.** To activate the light: Turn on the device, press and hold the Lighting/Unit Switch button  for 3 seconds to illuminate the LED light.

**c.** To switch to SOS mode: Press the button again to switch the light to SOS flashing mode. Press once more to enter the red and blue light flashing mode.

**d.** To turn off the light: Hold the button for 3 seconds.

**e.** The device supports four air pressure units: PSI, BAR, KPA, and Kg/cm<sup>2</sup>. You can press the unit button to switch between them. The pressure unit will automatically change after selection.

#### 5. Adjustment Value Set

**a.** The product comes preset with default air pressure values for each mode. If you'd like to adjust the pressure, press the "+" or "-" button to increase or decrease the value by 0.01 Bar.

**b.** Press and hold for a longer duration to adjust the value more quickly.

**c.** Once you've set your desired pressure, press the start button to confirm, or wait for 3 seconds for automatic confirmation, or directly press the unit button to confirm your chosen value without waiting.

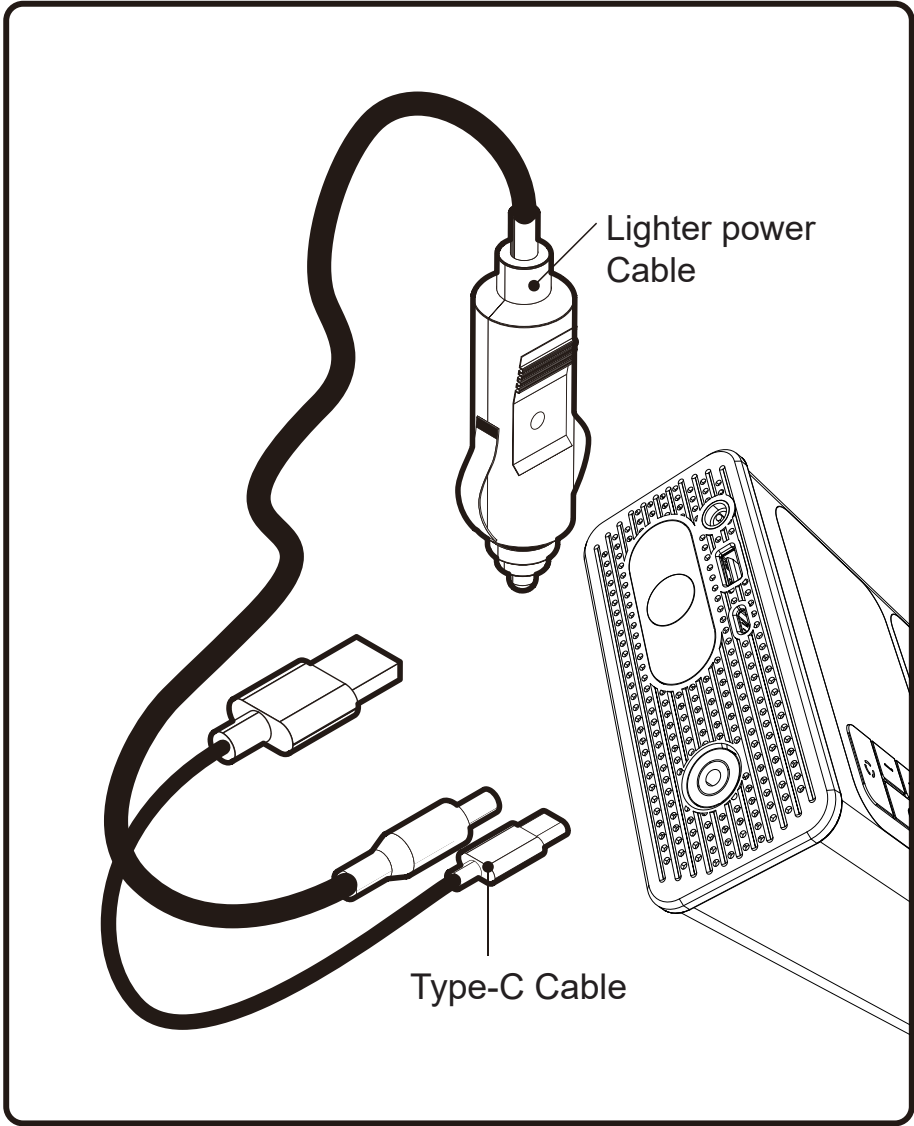
## Power Bank Instructions

This product functions as a power bank, providing a USB output capacity of QC 21.6W and a battery capacity of 15,200 mAh, suitable for charging mobile phones and digital devices. Simply turn on the power to start using it.

### Power Supply Selection

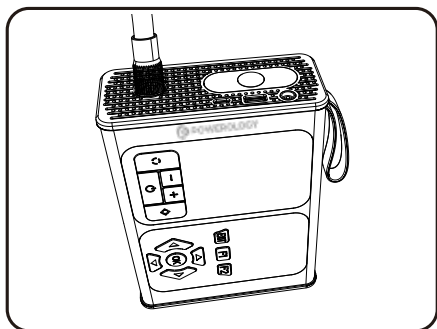
**Cigar Lighter to Power Supply:** Connect via the cigar lighter for a power supply.

Use the included Type-C charging cable to charge the product. You can use your mobile phone charger or car charger with PD 20W specs for charging. When charging, the battery symbol will flash. Once fully charged, the battery symbol will stop flashing.

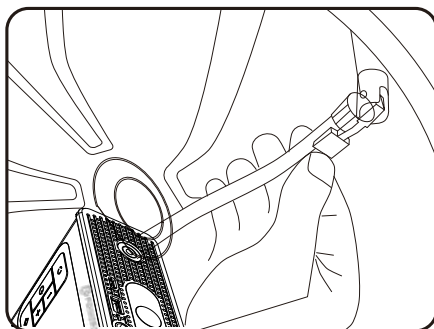




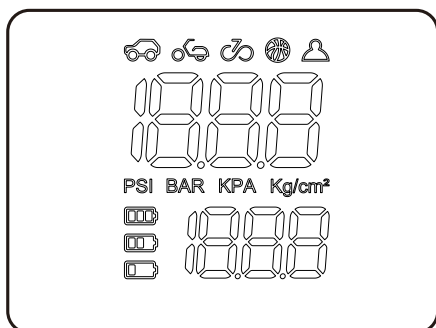
## Air Pump Operation




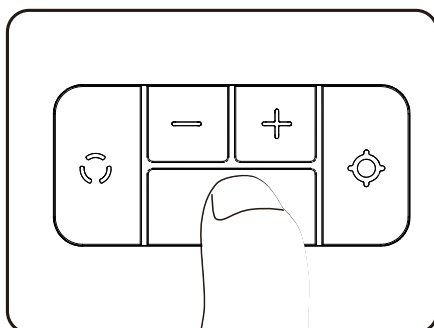
1. Connect the air tube to the air pump.




2. Tighten the air tube at the air valve



3. Press the mode button  to choose mode.



4. Press the Power button  to start inflating.

## Overdischarge Protection

If the emergency start function is used in a low-temperature environment and triggers the battery's over-discharge protection, the

system will automatically enter protection mode. In this state, the display screen will not power on. To restore normal use, simply connect the charging cable to recharge and activate the system.

## Temperature Protection

### **A.** Function:

The operation is temporarily stopped when the motor reaches the temperature protection point during prolonged inflation. The motor will not resume operation automatically until the protection is lifted.

### **B.** Temperature Protection Mode:

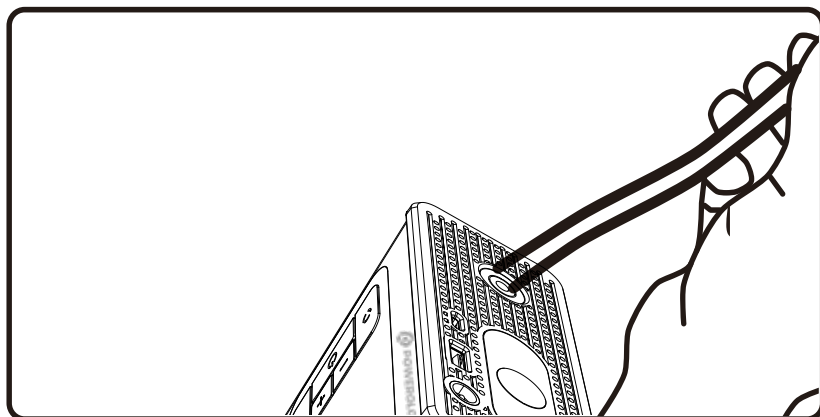
Upon entering temperature protection mode, the screen will display "HI" for 5 seconds. It will then return to normal display and remind you every minute.

### **C.** Normal Functionality During Protection:

While in temperature protection mode, the other functions, such as detecting air pressure, lighting, and unit/air pressure, will continue to operate normally, except for the motor, which will remain limited.

### **D.** Key Press During Protection:

If the start key is pressed during temperature protection, the screen will show "HI" for 5 seconds again.



## Pressure Maintenance Guide

### 1. Function:

The pressure holding function automatically maintains the set pressure value once activated. If the air pressure falls below the set value, the pump will automatically replenish air until the desired pressure is reached, then stop when the pressure is maintained.

### 2. Activation:

To activate the pressure holding mode, long-press the unit key while the device is powered on. The key will flash every 0.5 seconds, indicating entry into pressure holding mode.

### 3. Adjustable Range:

The pressure holding function can be set within a range of 0.1 to 0.5 BAR, applicable for pressures from 0.3 to 4 BAR. It will not activate if the pressure is below 0.3 BAR or above 4 BAR.

### 4. Process:

**a.** After activation, the screen will display the current pressure. The unit will flash for 5 seconds, indicating that you can adjust the pressure within a 0.1 to 0.5 BAR range.

**b.** After 5 seconds, it will enter the pressure detection mode. If adjustments are needed, you will need to exit and re-enter to adjust again.

### 5. Memory:

The pressure holding value is not saved after powering off and must be manually reactivated with each power-on.

## Safety Precautions

**1.** Always perform automotive testing in a safe environment. Wear safety eye protection that meets ANSI standards.

- 2.** Keep clothing, hair, hands, tools, test equipment, etc., away from all moving or hot engine parts.
- 3.** Operate the vehicle in a well-ventilated area, as exhaust gases can be poisonous.
- 4.** Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and ensure the parking brake is engaged.
- 5.** Place blocks in front of the drive wheels and never leave the vehicle unattended during testing.
- 6.** Be extra cautious when working around the ignition coil, distributor cap, ignition wires, and spark plugs. These components create hazardous voltages when the engine is running.
- 7.** Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- 8.** Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- 9.** Keep the test equipment dry, clean, free from oil, water, or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- 10.** Do not drive the vehicle while operating the test equipment. Any distraction may lead to an accident.
- 11.** Refer to the service manual of the vehicle being serviced and follow all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- 12.** To avoid damaging the test equipment or generating false data, ensure that the vehicle battery is fully charged and that the connection to the vehicle DLC is clean and secure.
- 13.** Do not place the test equipment on the distributor of the vehicle. Strong electromagnetic interference can damage the equipment.
- 14.** Keep children away from using the product, and ensure that parents supervise usage. Do not insert the air tube into the body or

any animal's mouth.

- 15. Do not use the product as a toy.
- 16. Stop using the product near flammable or explosive liquids and gas stations (e.g., oil stations, LPG stations).
- 17. Be cautious of burns when handling the air tube during disassembly or assembly, as high-pressure running may cause physical heat.
- 18. Suggested usage intervals: Use the product for 5-10 minutes, then rest before continuing to avoid overheating. Do not leave the charging cable plugged in for too long to prevent overcharging.
- 19. To use the product, start the vehicle first and then connect it using the cigar lighter adapter to draw power.

## Material Content

Part Name	Harmful Item					
	Pb	Hg	Cd	Cr6+	PBB	PBDE
Printed circuit board assembly	O	O	O	O	O	O
plastics	X	O	O	O	O	O
Metal	X	O	O	O	O	O
Battery	X	O	O	O	O	O
Attachment	X	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T2014-11364  
**O:** It indicates that the content of the harmful item in all homogeneous materials of this part is the following limited requirements stipulated in GB/T26572.

**X:** It stands for that the content of the harmful item in all homogeneous materials of this part exceeds the limited requirements stipulated.



This mark involves the use validity limited time standard for all the products' environmental protection, except for other special notes.

Some replaceable parts may have a different environmental protection service life (e.g., battery cell modules).

It is applicable to work according to the ruled condition from the product manual book for the validity use time of environmental protection service life.

## FCC Statement

**1.** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1)** This device may not cause harmful interference; and
- (2)** This device must accept any interference received, including interference that may cause undesired operation.

**2.** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for assistance.

RF warning statement:

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction.

## **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 **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**

## **Contact Us**

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

Website: **powerology.me**

Instagram: **powerology\_official**

Facebook: **powerology.ME**