

LOKITHOR

Jump Starter **JC400**

The Force of Thunder in Hand



Contents

1. Safety Instructions	03
2. Product General	04
3. Product Specification	05
4. Mechanical Characteristic	06
5. Button & Screen Introduction	07
6. Input / Output Port Instructions	09
7. How to Wake up the Device?	10
8. How to Use the Jump Start Function?	10
9. How to Use the Voltmeter Function?	12
10. How to Charge an External Battery?	13
11. How to Use Force Charge Function?	14
12. When to Use 12V Repair Function?	14
13. How to Use LED Lights?	15
14. How to Charge the Device?	15
15. How to Use JC400 to Charge Other Devices?	16
16. Error Code Display Description	16
17. Warning Notes	17
18. Recycling Treatment	17
19. Warranty and After-Sales Service	18
20. Customer Service	18

1. Safety Instructions

***Please read the following instructions carefully before using the JC400:**

1. Please operate in strict accordance with the instructions. Improper operation may lead to serious safety accidents.
2. When using jump start function of JC400 device. it is only used for 12V engines, and cannot start vehicles exceeding the specified displacement or exceeding the specified voltage (12V).
3. Force start mode: In this mode, some safety protection mechanisms are invalid and need to be used with caution. Be sure to prevent the positive and negative poles from being short-circuited, otherwise it will cause a short-circuit accident. You must check the operating instructions in the manual before operation.
4. In order to extend the service life of JC400, please charge it after receiving it, and charge and discharge the device every three months to ensure that it is in good condition for next use.
5. Do not use the device that has been excessive shocked, dropped or other forms of damage.
6. Do not use the device to start the vehicle while it is in charging.
7. Do not disassemble the the device without authorization. Please contact professional maintenance personnel to repair and deal with the abnormal device.
8. Be extremely careful during operation to avoid metal tools falling on the power interface (which can easily cause short circuit, equipment damage, and explosion).
9. When jump starting the car and charging battery, make sure that the positive and negative poles of the jumper clamps are in good contact with the positive and negative poles of the car battery.
10. It is forbidden to allow sparks and flames to come close to the device.
11. In order to prevent sparks from short circuit and damaging the device, it is forbidden to clamp the positive and negative clamps together or make them touch the same metal.
12. Please do not place the device in a place easily accessible to children.

13. Do not expose the device to rain or snow.
14. Do not leave the device in extreme environments for a long time. (such as high temperature: >131°F (55°C), extreme cold: <14°F (-10°C), humidity: humidity>80%)
15. Please store the device in a cool and dry place, and take protective measures when necessary.
16. When the device is exhausted or has a low battery, please charge it in time to prevent abnormal battery under-voltage. Long-term zero battery status may cause the device to be unable to charge.

2. Product General

The JC400 is a multi-functional car battery tool, designed to integrate the functionalities of jump starter, battery charger, power supply, and emergency LED light into the smallest possible volume. Through advanced technological development, it achieves the most compact integration of these essential features. Whether you need to jump start a vehicle, charge your devices, or provide illumination, the JC400 delivers powerful performance in a compact form factor.

As jump starter, it can easily jump start 12V vehicles up to 8.5L Gas/6.5L Diesel engines in seconds. Suitable for cars, motorcycles, boat, snowmobiles and more. As a smart charger, the JC400 supports 6V/12V regular battery, 12V AGM and 12V lithium batteries, featuring desulfation, trickle charge, and float charge modes. It includes protections against short circuit, overload, and overcharge, reverse connection ensuring safe and efficient use. Ultra compact and durable, JC400 will be your reliable companion for every journey.

3. Product Specification

3.1 Main Specification

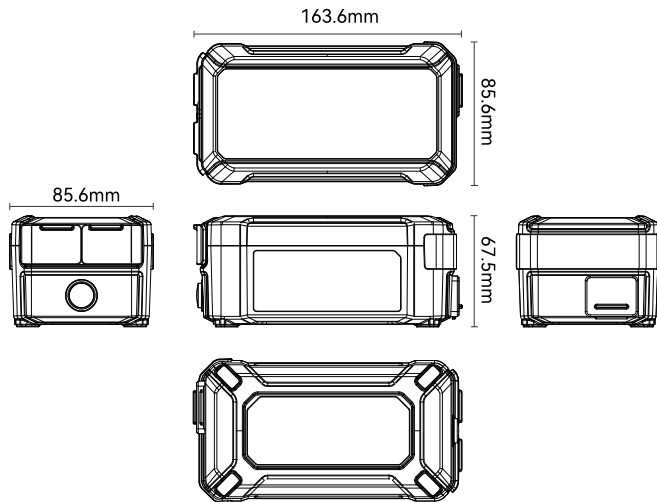
Model No	JC400
Jump Starter	Battery Voltage: 4S*3.7V=14.8V
	Battery Capacity: 29.6Wh=8000mAh at 3.7V
	Input: USB-C 5V=3A
	Output: USB-C 5V=3A USB-A 5V=3A
	Starting Current: 1500Amp
	Peak Current: 2500Amp
Battery Charger	AC Input: 100-240V~50/60Hz 0.8A Max
	Output Voltage: 1-15V
	Output Current: 0.75A / 1A / 2A
	Compatible Battery: 6V, 12V, 12V Lithium, 12V AGM
LED Light	LED Light: 300 LUMEN
	Six Modes: 100% / 50% / 10% / Blink / SOS / Strobe
	Charging temperature: 0°C ~ 45°C (32°F ~ 113°F)
Temperature	Operating temperature: -20°C ~ 60°C (-4°F ~ 140°F)
	Storage temperature: -20°C ~ 50°C (-4°F ~ 122°F)

3.2 Protection Characteristics

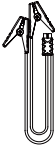
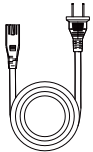
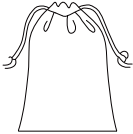
NO	Items	Parameter
1	Over voltage protection	Yes
2	Under voltage protection	Yes
3	Over current protection	Yes
4	Short circuit protection	Yes
5	Over heating protection	Yes
6	Overload protection	Yes
7	Reverse-Polarity Protection	Yes

4. Mechanical Characteristic

4.1 Product Size

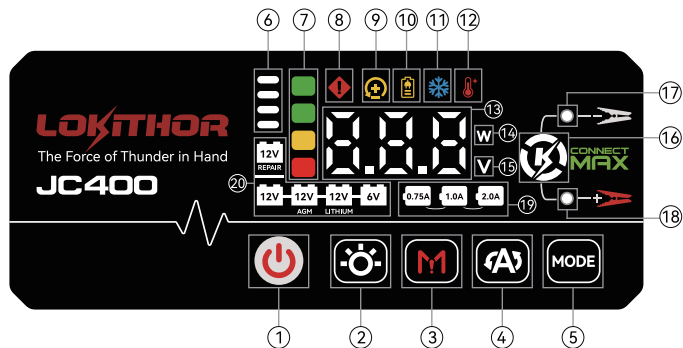


4.2 Packing List

JC400	Jumper Clamps	User Manual
		
AC Power Cord	USB-A to USB-C	Brand Experience Card
		
Accessories bag		
		

5. Button & Screen Introduction

5.1 Button Introduction



4. Current Switch Button:

Short press the button to switch the charging current modes:
0.75A / 1A / 2A.

5. Mode Switch Button:

In AC mode, there are five modes: 12V REPAIR, 12V, 12V AGM, 12V LITHIUM, 6V.

In DC mode, there are only two modes: jump start mode and 12V mode.

6. External Battery Indicator:

Indicates the charge level of the external battery.

7. Internal Battery Indicator:

Indicates the charge level of the internal battery.

8. Error Indicator:

Restart the device (JC400) or contact after-sales service.

9. Reverse Connection Indicator:

Indicates the clamps are connected to the car battery in reverse.

10. Charging Reminder Indicator:

When the yellow light is on, please charge the device before use.

11. Low Temperature Protection Indicator:

The blue light will illuminate when the internal temperature is too low.

12. Over Temperature Protection Indicator:

The red light will illuminate when the internal temperature is too high.

13. Digital Display Area:

Displays voltage / error codes / countdown / charge and discharge power.

14. Power Indicator:

Shows charging and discharging power.

15. Voltage Indicator:

In automatic start mode, Connect to the car battery to display the car battery voltage. In force start mode, it displays the device (JC400)'s voltage.

16. ConnectMax Status Indicator:

When using the startup function, it shows that the ConnectMax function is in effect.

17. Negative Clamp Indicator:

Green light: low connection impedance;
Yellow light: high connection impedance.

18. Positive Clamp Indicator:

Green light: low connection impedance;
Yellow light: high connection impedance.

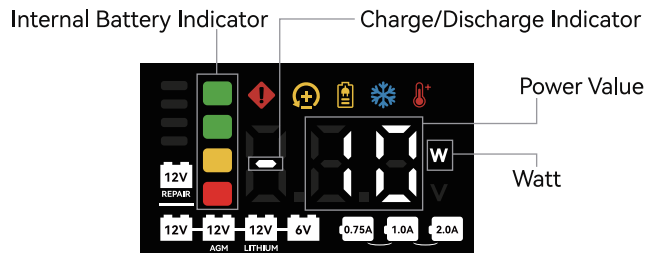
19. Current Switch Indicator:

Once a current mode is selected, the corresponding indicator light will light up.

20. Mode Switch Indicator:

Once a charging mode is selected, the corresponding indicator light will light up.

5.2 Internal Charge / Discharge Display Instructions

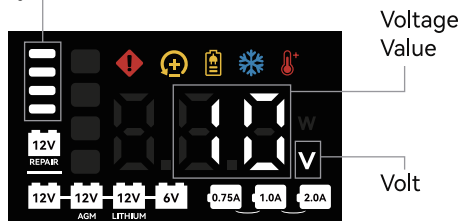


5.2.1 When the product is discharging via USB: The screen will display the discharge power and the discharge symbol "—". The battery level indicator lights shows the internal battery level through constant light. For example, at 50% battery level, 2 lights are always on, and 2 lights will be off.

5.2.2 When the product is charging the internal battery: The screen will display the charging power, and don't show symbol "—". The battery level indicator lights shows the internal battery level through a "running light". For example, at 50% battery level, 2 lights will always on, and 2 lights will be flashing in a cycle.

5.3 External Charge / Discharge Display Instructions

External Battery Indicator



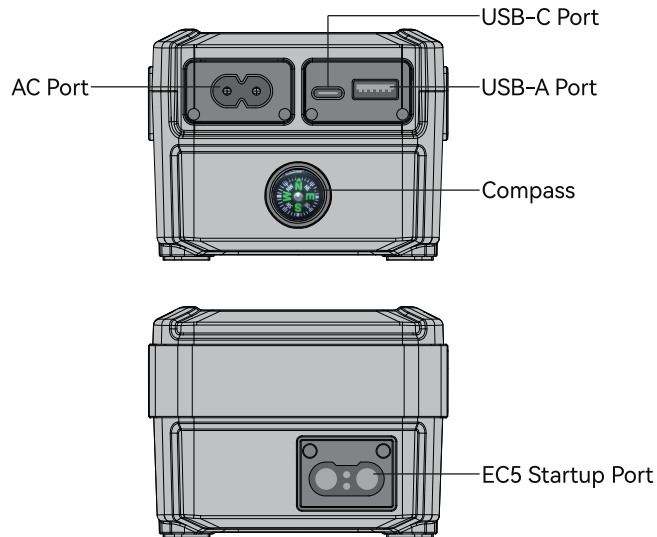
5.3.1 Voltage Display:

When the device is charging an external battery or starting a vehicle, the screen will display the voltage of the external battery in real time.

5.3.2 External Battery Charge Indicator:

When the product is charging an external battery, the charge indicator lights shows the external battery level through a "running light". For example, at 50% charge, two lights will be constantly on, and two lights will be flashing in a cycle.

6. Input / Output Port Instructions



7. How to Wake up the Device(JC400)?

Short press the "LED light switch button  " or " power button  " or plug in the AC power supply.

8. How to Use the Jump Start Function?

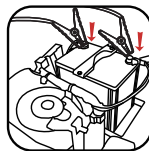
Note: When connecting AC power cord to use the charging function, the jump start function is prohibited.

8.1 Method: 12V Automatic Start



Step 1

Confirm that the starting voltage of the car is 12V.



Step 2

Connect the positive and negative poles of the jump clamps to the positive and negative poles of the car battery respectively, and ensure that the connections are good.



Step 3

Short press the "LED light switch button  " or "power button  "to wake up the device. Then short press the "mode button  " to switch into start up mode (The LED lights on the panel are running in a circle pattern) If the detection meets the automatic start requirement, it will enter the 10-second clamps connection status detection countdown, After the countdown is over, the start indicator light on the display panel will flash, and show the actual voltage of the car battery at the same time. The car can be started at this time.



Step 4.

If the car starts successfully, short press the "power button  " or " mode button  " to exit the jump start function, and then disconnect the jump clamps. In most cases, the vehicle will start successfully immediately during the first operation. If the start fails, please check the connection status of clamps, and then try again. no more than 5 consecutive starts within 15 minutes.



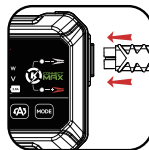
Step 5.

After using the device(JC400), remove the clamps and long press the “power button  ”for 2 seconds to shut down the device. If the device(JC400) is not operated for 60 seconds, it will automatically shut down.

8.2 Method: Force Start

Safety reminder: Some safety protection mechanisms are disabled in this mode, so you need to use it with caution. Be sure to prevent the positive and negative poles from being short-circuited, otherwise it will cause a short-circuit accident. You must check the operating instructions in the manual before operating. Only for use when the battery is too low to detect voltage.

When the automatic start function fails, you can use the force start function after checking the operating specifications in the manual.



Step 1

Insert the jump clamps into the startup port on the device.



Step 2

Connect the positive clamp to the corresponding positive terminal of the car battery. In the power-on state, long press the "force start button  " for 5 seconds to activate boost start mode. The start indicator light on the display panel will light up indicating the clamp output is active.



Step 3

Connect the negative clamp to the negative positive terminal of the car battery and ensure the connection is good. At this time, the screen displays the voltage after the positive and negative clamps of the device are connected to the car battery. Then start the vehicle.



Step 4

After starting the car successfully, short press the "power button  "or "force start button  " or " mode button  " to exit.

8.3 ConnectMAX Display

- In the automatic start mode, after the device(JC400) 's jumper clamps are connected to the car battery, it will enter into a 10-second detection countdown;
- If the connection impedance of the jumper clamps are low, the corresponding clamp status indicator light will be green;
- If the connection impedance of the jumper clamps are high, the corresponding clamp status indicator light will be yellow;
- You can adjust the connection status of the jumper clamps during the 10-second countdown;
- After the 10-second countdown ends, it need reconnect the jumper clamps to start again;
- In force start mode, the jumper clamps status indicator light displays a yellow flashing light.

9. How to Use the Voltmeter Function?

9.1 In Jump Start Mode:

- 9.1.1 Connect the positive and negative poles of the clamps to the positive and negative poles of the car battery respectively, and ensure that the connection is good.
- 9.1.2 After the 10-seconds countdown is over, the start indicator light on the panel lights up and displays the current battery voltage of the car.
- 9.1.3 Disconnect the clamps from the car battery and exit the voltmeter function mode.

9.2 In External Battery Charging Mode:

- 9.2.1 Connect the positive and negative poles of the clamps to the positive and negative poles of the car battery respectively, and ensure that the connection is good. At this time, the product immediately displays the current external battery voltage.
- 9.2.2 Disconnect the clamps from the car battery and exit the voltmeter function mode.

10. How to Charge an External Battery?



Step 1

Plug in the AC power supply, and the product will automatically wake up and turn on.



Step 3

Short press the "current switch mode (A)" to switch the charging current. Three options are available: 0.75A, 1A, 2A.



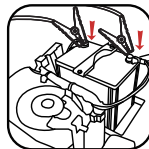
Step 5

When all the external battery charge indicator lights are constantly on, it indicates that the external battery is fully charged.



Step 2

Short press the "mode button (MODE)" to switch the charging mode. The corresponding voltage indicator light will be light up. Total five charging modes: 12V REPAIR, 12V, 12V AGM, 12V LITHIUM, and 6V.



Step 4

Correctly connect the external battery. Attach the red clamp to the positive terminal of the battery and the black clamp to the negative terminal. The external battery charge indicator light will flash, Indicates that the battery starts charging.

Note 1: Do not reverse the battery connections, as this will prevent charging.

Note 2: The charging and repair modes can only recognize external batteries with a voltage above 1V. For batteries with a voltage below 1V, please use the force charging mode.

11. How to Use Force Charge Function?

Allow using force charging mode when the charger is connected to the battery but cannot be detected due to low voltage. For example, If the battery voltage is below 1V and cannot be detected by the charger. You can use the force charging function following these steps:

Step 1. Plug in the AC power supply, and the product will automatically wake up and turn on.

Step 2. Correctly connect the external battery. Attach the red clamp to the positive terminal of the battery and the black clamp to the negative terminal.

Step 3. Short Press the "mode button"  "to switch to the charging mode.

Step 4. Short Press the "current switch button"  "to switch the charging current.

Step 5. Long press the "mode button"  "for 5 seconds to activate forced charging mode. The charging mode light will start flashing indicating that force charging mode is activated, and the external battery charge indicator light will flash. After 5 minutes, the charger will return to normal charging operation, and low-voltage detection will be reactivated.

Note: Exercise extreme caution when using this mode. The safety protection mechanisms are disabled in this force charging mode, and there is a risk of electric shock. Ensure all connections are completed before using force charging function, and do not touch the connections at the same time. Otherwise there may be a risk of sparks and explosion.

12. When to Use 12V Repair Function?

The 12V repair mode may be needed in the following situations.

1. Battery sulfation (sulfate crystallization)

Phenomenon: When the battery is not fully charged or idle for a long time, lead sulfate crystals (sulfation) form on the surface of the plate, resulting in increased internal resistance and decreased capacity.

2. Battery capacity significantly decreases

Phenomenon: The battery life is significantly shortened, and it cannot be fully charged or discharges too quickly.

3. Performance degradation after long-term idleness

Phenomenon: The battery is stored for several months without use, and excessive self-discharge or sulfation occurs.

4. Minor physical damage

Phenomenon: The plate is slightly deformed or the electrolyte is dried up (non-sealed battery).

JC400 repair mode (12V repair) uses a high-frequency pulse repair method to break up the lead sulfate crystals on the plate, thereby restoring the battery plate activity, partially recovering the battery capacity, and extending the overall battery life.

13. How to Use LED Lights?

Step 1. Press and hold the "LED light switch button  " for 1 second to turn on the LED light.

Step 2. Short press the "LED light switch button  " repeatedly to switch light modes: 100% / 50% / 10% / Blink / SOS / Strobe / off.

Step 3. Long press "LED light switch button  " for 2 seconds to turn off the LED light.

14. How to Charge the Device (JC400)?

Method 1. When the power cable is connected to AC power, the battery level indicator lights on the screen will illuminate, indicating that the product is charging normally.

Method 2. Connect the A port of the USB cable to the power adapter, and the other end, C port is connected to the USB-C charging port of the device(JC400). The battery indicator on the screen lights up, indicating that the device is charging normally.

- Note:** 1. When the device is exhausted or has a low battery, please charge it in time to prevent abnormal battery under-voltage.
2. A long-term zero-battery state may cause the device to be unable to charge.

15. How to Use JC400 to Charge Other Devices?

Step 1. Tool preparation: USB-A To USB-C cable, mobile phone.

Step 2. Connect the A port of the USB cable to the device(JC400) and the C port to the Type-c charging port of the phone to start charging.

16. Error Code Display Description

NO	Error Code	Explanation	Reason / Solution
1		Over Heating Protection	Wait for the device to cool down
2		Low Temperature Protection	keep the device at the appropriate temperature
3		Abnormal Status	Restart the device (JC400) / contact after-sales
4		Reverse Connection Protection	Correctly connect the car battery
5		Charge Reminder	The current startup capacity is insufficient, please charge and try again
6	430	Externsl Battery Voltage is Greater than Device Voltage	Try again after charging or check if the 24V battery is connected incorrectly
7	450	Startup Failed	After confirming the correct connection, please refer to the manual to use force start mode

17. Warning Notes

***The device has no user-serviceable parts. Do not disassemble the device JC400 without authorization. Any repairs should be handled by professional maintenance personnel.**

1. The battery voltage of the vehicle must be confirmed and used in accordance with the device voltage status to avoid safety accidents.
2. When the battery capacity is > 50%, it can be used to quickly start the vehicle. When the device has insufficient power, it may not be able to effectively start the vehicle.
3. It is normal for the body to be slightly hot when the device is working.
4. In order to maximize the service life of the device, please charge the it at least once every three months.
5. If the device leaks or emits any peculiar smell, please stop using it and contact us immediately.
6. Do not connect red clamp to black clamp, this may cause a hazard.
7. Please only use original device clamps clips.
8. Please keep the device away from fire and water to avoid safety accidents.
9. Never place the device in an environment above 60°C or expose it to the sun; please store the device in a cool and dry place.
10. Do not disassemble or modify this device without approval and authorization.
11. Do not violently knock, press or shake the device, otherwise it may cause fire, explosion and burning.
12. Do not use chemical cleaners to clean the device.
13. Please keep this device away from children.

18. Recycling Treatment

1. Do not dispose of it with other household waste at the end of its service life to prevent irreparable damage to the environment or humans.
2. Please separate it from other types of waste and recycle it responsibly to promote the sustainable use of material resources.

19. Warranty and After-Sales Service

From the date of purchase by the user, we provide a limited warranty for this product against any defects in materials and workmanship for a period of 12 months, subject to the following conditions:

1. Proof of purchase from an authorized dealer channel (such as order page details or an invoice) must be provided by the purchaser to apply for after-sales service.
2. The warranty does not cover damage or malfunction caused by normal wear and tear, physical damage, improper installation, misuse, modification, or repair by unauthorized third parties.
3. We are not responsible for any loss or damage caused during third-party transportation or due to force majeure.
4. We are not responsible for any incidental or consequential damages resulting from the use or misuse of this product.
5. All warranty claims are limited to the repair or replacement of defective products and are subject to our sole discretion.
6. If we repair or replace the product, the product will continue to be covered by the remainder of the original warranty period. Repair or replacement may involve the use of refurbished equipment with the same functionality, and we reserve the right to decide.
7. Consumable parts, such as batteries, are not included in the warranty.
8. The merchant reserves the final right to change and interpret the warranty terms.

20. Customer Service

LOKITHOR Inc.
290 Lindbergh Ave
Livermore, CA 94551
United State



12 Months Limited
Warranty Service



Feel Free to Contact Us:
service@lokithor.net



For FAQ and More Information
WWW.LOKITHOR.NET

WARNING: Cancer and Reproductive Harm-www.P65Warnings.ca.gov