

Technaxx® * User Manual

Jump Starter 12000mAh TX-120

The Declaration of Conformity for this device is under the Internet link: www.technaxx.de/ (in bottom bar “Konformitätserklärung”). Before using the device the first time, please read the user manual carefully.

Service phone No. for technical support: **01805 012643** (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks).
Free Email: **support@technaxx.de**

This device has a rechargeable battery. It must be fully charged before first use. NOTE: Charge the battery of the device every 2–3 month if it is not used!

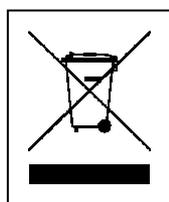
Important Hints * This device is only suitable for CARS (12V) !

- This device has 5 indicator lights (= LED). When only 3 LEDs are shining, or less, then do NOT use the device to start your car! But you can use it for charging digital devices.
- When trying to start your car more than 3x without success, stop starting it. Disconnect the device to avoid damaging other parts of the car.
- Check the power of the device 1x per month and also charge it to ensure it can work in an emergency case.
- Do NOT use the device all the time for charging. Maybe then it will not have enough power for starting a car in an emergency situation.
- Device shuts down automatically when it is not loading other external devices.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

Warranty 2 years

Enjoy your product. Share your experience and opinion on one of the well-known internet portals.



Hints for Environment Protection: Packages materials are raw materials and can be recycled. Do not disposal old devices or batteries into the domestic waste. **Cleaning:** Protect the device from contamination and pollution (use a clean drapery). Avoid using rough, coarse-grained materials or solvents/aggressive cleaner. Wipe the cleaned device accurately. **Distributor:** Technaxx Deutschland GmbH & Co.KG, Kruppstr. 105, 60388 Frankfurt a.M., Germany

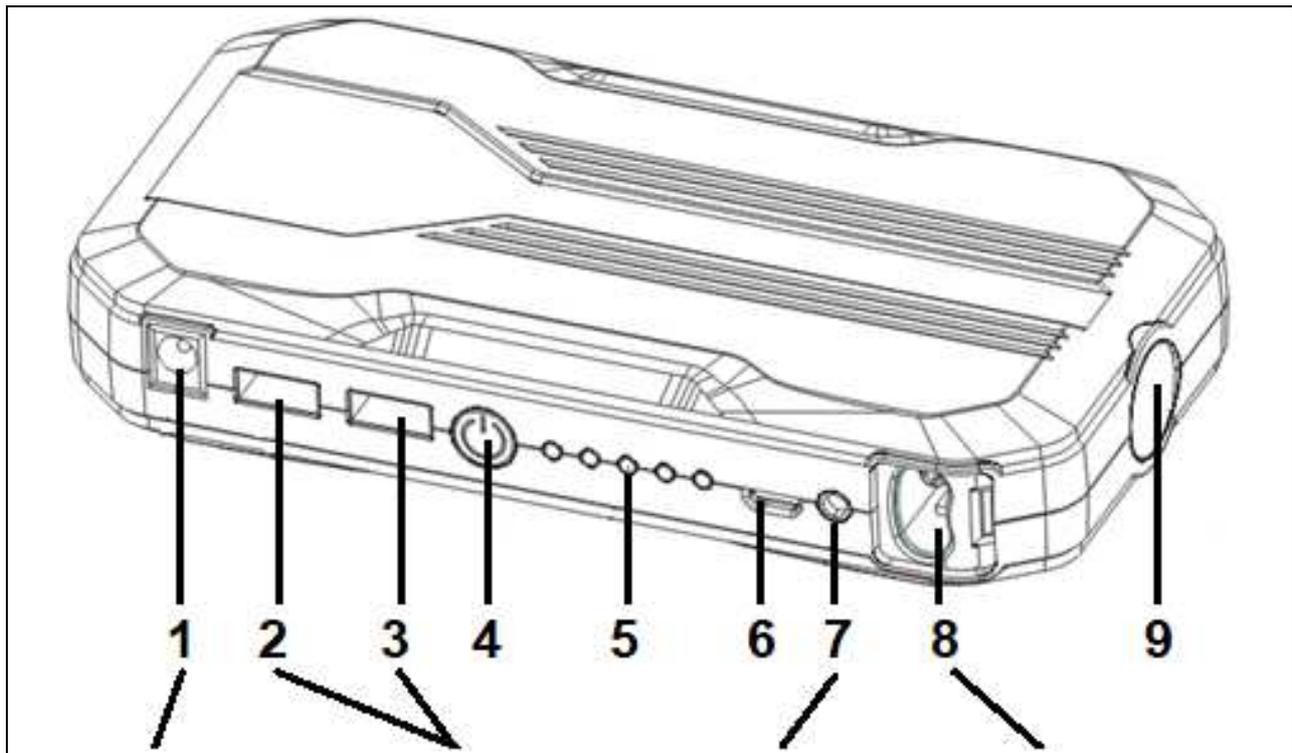
Features

- 3-in-1 Power Bank: Jump Starter for the car battery, Charging (e.g. Smartphone/Tablet/PC/etc.), Emergency Light
- Jump start: diesel cars up to 2L engine, gasoline/petrol cars up to 4L engine
- Integrated emergency light (3 lighting effects)
- Overcharge and overdischarge protection, fuse protection and reverse plug protection
- 12000mAh lithium-polymer battery
- 2x USB outputs for simultaneous charging of two devices
- Power supply via 12V cigarette lighter adapter
- Ideal size to fit into the inner front glove compartment

Technical specifications

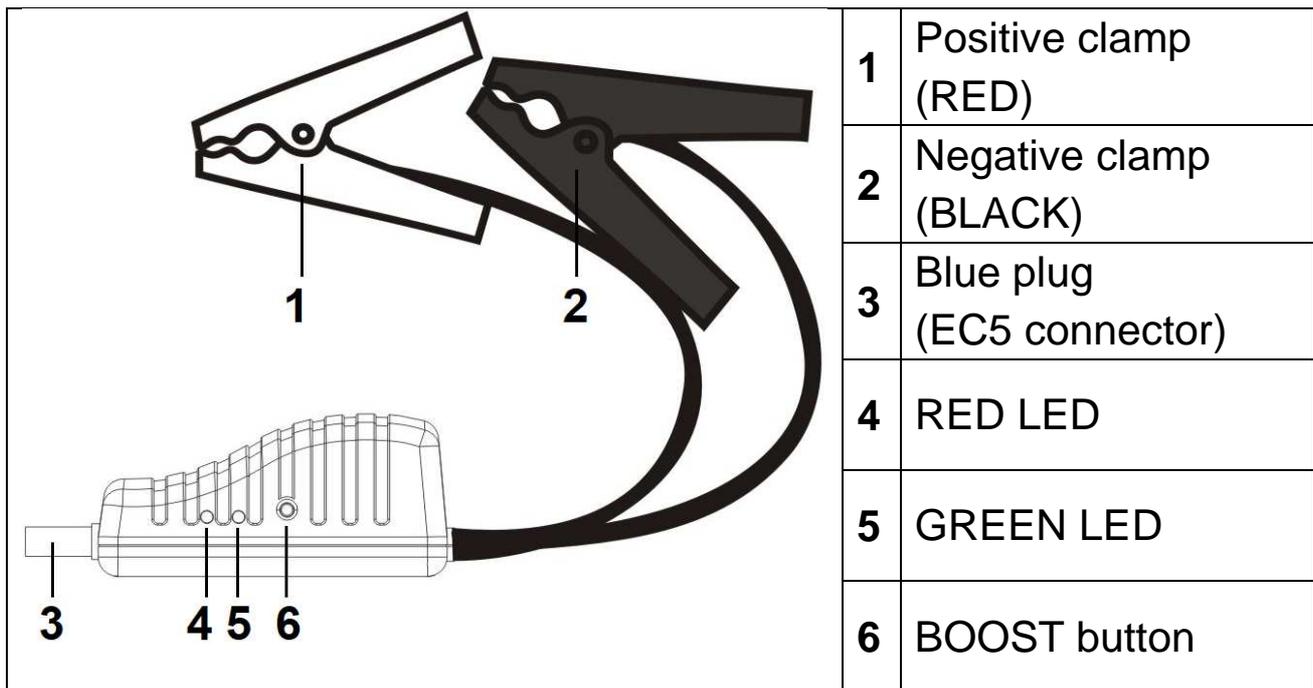
Jump Starter output (clamps)	12V output for starting a car
Starting current / Peak current	200A / 400A
Recommended vehicles	Gasoline/petrol engines up to 4.0L; Diesel up to 2.0L
Power	Built-in rechargeable 3x 3700mAh Li-polymer battery total 11.1V / 41.07Wh (real) / charging time ~3–6 hours
Input voltage	at home 15V/1A, 5V/2A, in a car 12V/1A
Output (USB ports)	5V/2.4A, quick charge (5V/2.4A, 9V/2A), 12V/10A (barrel connector only)
Battery Clamps	Input: DC 11.1V–12.6V / 400A Output: DC 11.1V–12.6V / 400A
Operating temperature	–20°C up to +60°C
Storage temperature	–10°C up to +60°C
Weight / Dimensions	400g / (L) 16.2 x (W) 8.5 x (H) 3.0cm
Package contents	Jump Starter 12000mAh TX-120, Battery clamps with cable, Micro USB charging cable, Cigarette lighter socket with barrel connector, Adapter for the cigarette lighter, Home socket adapter, User Manual

Product overview



	For 12V vehicle products	USB cable connection	Input	Battery clamps
				
1	Barrel connector 5.5 x 2.1mm DC12V/10A output		6	Micro USB DC5V/2A Input port
2	USB Quick Charge DC5V/2.4A output		7	DC15V/1A input (home charger); DC12V/1A input (car charger)
3	USB DC 5V/2.4A output port		8	Jump start socket for clamps (EC5)
4	Switch button On/Off		9	LED flash light
5	Indicator lights (charging status / battery status)			

Clamps overview



Charging

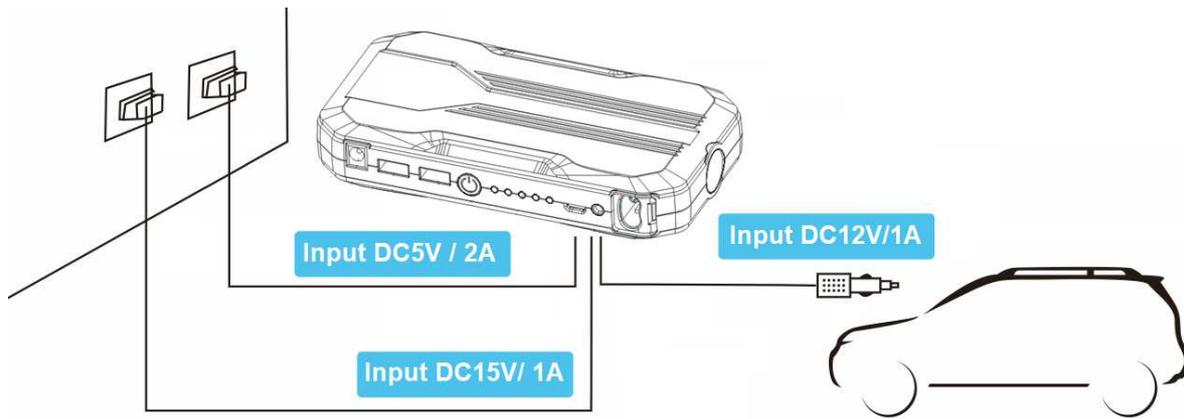
First time before using, charge the TX-120 about 3–4 hours via 15V/1A power adapter and about 5–6 hours via 5V/2A USB.

Charging by the USB charger cable

Plug the USB charger cable to any working USB output port. Connect the Micro USB to the 5V/2A Input port of the TX-120. If all 5 LEDs are lit (that means the device is fully charged) disconnect the device to save the power. All 5 LEDs turn off automatically, when the device is not disconnected after it is fully charged.

Charging with the home/car charger

● Plug the car charger into the socket cigarette lighter. Connect the barrel connector to the 15V/1A input port [7] of TX-120, or ● Plug the home charger into the power socket (AC100-230V 50-60Hz). Connect the barrel connector to the 15V/1A input port [7] of TX-120. If all 5 LEDs are lit (that means the device is fully charged) disconnect the device to save the power. All 5 LEDs turn off automatically, when the device is not disconnected after it is fully charged.



Switch button and power indication instructions

(1) Press the SWITCH button 1x, check the balance power and start the product.

(2) Press the SWITCH button for 2–3 seconds to activate the LED. The 3 modes of LED lights appear in sequence (permanent LED, Fast flashing LED, SOS, Off). Press the SWITCH button short to switch between modes.

(3) Indicator light → Press the SWITCH button. Then the power indicator lights are on. → 5 LEDs are lighting in BLUE, charging power is about 100% → 4 LEDs are lighting in BLUE and 1 LED is OFF, charging power is about 80% → 3 LEDs are lighting in BLUE and 2 LEDs are OFF, charging power is about 60% **(From this capacity status on, please do not start your car any longer with the TX-120!)** → 2 LEDs are lighting in BLUE and 3 LEDs are OFF, charging power is about 40% → 1 LED is lighting in BLUE and 4 LEDs are OFF, charging power is about 10-20% → NO LED is lighting, balance power is about 0%.

(4) While charging → Connect the charger with the TX-120 and the indicator light is flashing. → 1st LED flashes, charging power is ~0%–10% → 2nd LED flashes, charging power is ~10%–20% → 3rd LED flashes, charging power is ~20%–40% → 4th LED flashes, charging power is ~60%–80% → 5th LED flashes, charging power is ~80%–100%. All 5 LEDs shine BLUE the device is fully charged. After a device is fully charged and not disconnected from charger, indicator light will turn off.

○○○○○	◎○○○○	●◎○○○	●●◎○○	●●●◎○	●●●●◎	●●●●●
0%	10%	20%	40%	60%	80%	100%

○ : Off ◎ : Flash ● : On

How to jump start a car with the TX-120

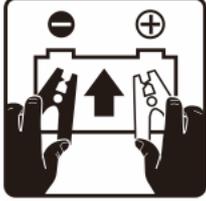
WARNING!

- Correct connected the GREEN LED [5] will light up automatically.
- Wrong connected the RED LED [4] will light up automatically.
- When for 30seconds no battery is detected device powers off automatically. GREEN LED turns [4] off.
- Do **NOT** press the BOOST button when the clamps are not connected to a battery. When the GREEN LED is lit the clamps are under tension. Do **NOT** hold the clamps together and cause a short circuit.

Note: If you cause a short circuit, the GREEN LED will start to flash. Remove the clamps from the TX-120 EC5 socket and wait about 1 minute before reattaching.

ATTENTION: During the starting process of a car with the TX-120, neither charge any other devices over the USB connection, nor charge the TX-120 itself.

To protect the TX-120 and keep its long lifetime, make sure the power of the TX-120 always is $\geq 60\%$ when using it to start a car.

⊕ Positiv		⊖ Negativ		
				
1.	2.	3. start the car	4.	5.

First (1.) → connect the EC5 connector of the clamps to the EC5 socket of the TX-120.

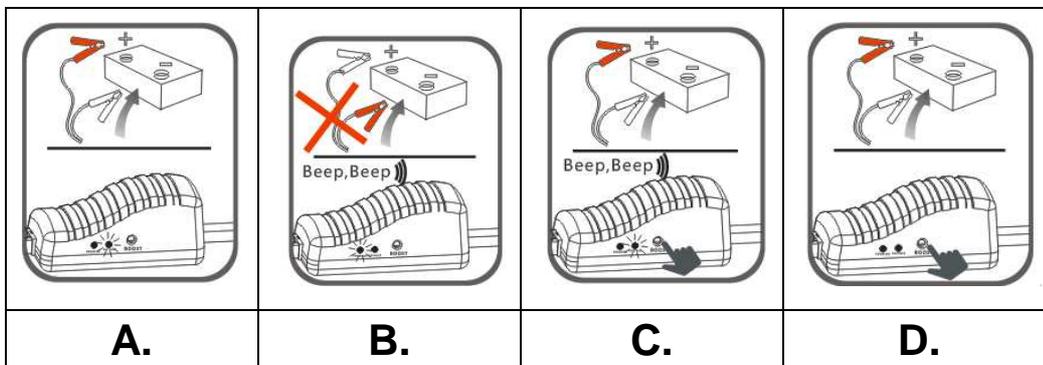
Then (2.) →→ put the red clamp to the positive pole (+) of car battery (maximum contact area). Put the black clamp to the negative pole (–) of car battery (maximum contact area).

Then (3.) →→→ start the car (should happen 30 sec.–1 min. after connecting the clamps).

Then (4.) →→→→ remove the black clamp of the negative pole (–) from car battery. **After that**, remove the red clamp to the positive pole (+) from car battery.

Last (5.) →→→→→ disconnect the EC5 connector of the clamps from the EC5 socket of the TX-120.

Meanings: LED, Alarm sound (Beep) & BOOST button



A. GREEN LED on

→ the connection is correct and the circuit is working (= direct jump start) → start the car engine.

B. RED LED on with alarm sound

→ Alarm tone due to incorrect connection → correct the battery clamps: connect the red clamp to the positive pole of the battery and the black clamp to the negative pole of the battery. Wait until the GREEN LED illuminates to start the engine.

C. GREEN LED blinking with alarm sound

→ The voltage of the vehicle battery is lower than 3V. Press the BOOST button. Wait until the GREEN LED illuminates steadily, and then start the engine. [**BOOST button** = if the car battery is empty, pressing this button manually will allow the car to start if the TX-120 has more than 60% charge capacity.]

D. No LED on, no alarm sound

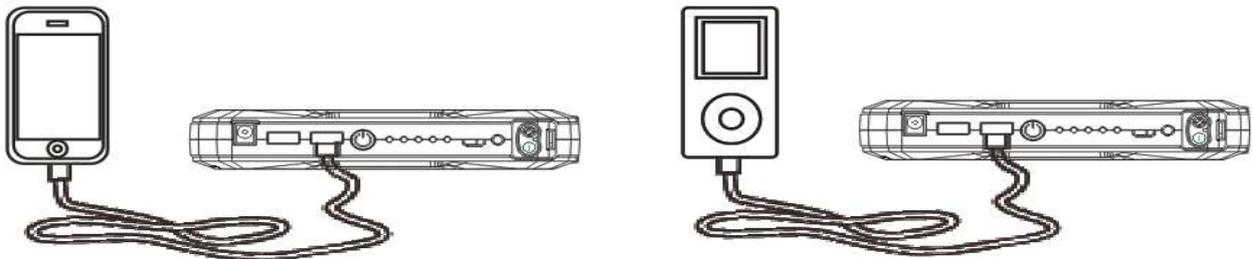
The vehicle's battery maybe damaged. Check the correct clamps connection, press the BOOST button. Wait until the GREEN LED illuminates to start the engine.

How to charge a digital device whose input is 5V

→ Choose the suitable data cable with USB connector.

→→ Put the USB connector into the 5V USB output (black) or the quick charge 5V/9V USB output (blue) of the TX-120.

→→→ Connect the other end of the data cable to the digital device that needs to charge. Then press the switch button. The TX-120 recognizes electronic product's suitable parameters. The indicator lights are on and charging begins.



Smartphone charging:

Capacity	Charging time Power Bank	iPhone X / iPhone 8	Huawei Mate 20 / Huawei P20	Galaxy S8, S9
12000mAh	~4–5 hours	~5 times	~3 times	~3.5 times

Power supply:

12V vehicle products or 12V electrical product

→ Connect the optional connection cable to 12V/10A output port.

→→ Connect the optional connection cable to a 12V vehicle product or 12V electrical product.

→→→ Press the switch button on the TX-120 to supply the product/electrical product with power.

Note: As an optional connection cable, use the supplied cigarette lighter socket with barrel connector to power the DC 12V powered device up to 10A. Otherwise, you will need a cable with a 5.5 x 2.1mm jack on one end of the cable, and at the other end there must be an adapter / plug that fits the device to be charged.

FAQs

- How to turn off TX-120? → TX-120 will power off automatically when no load connected or charging is completed.
- How long does the storage of battery will remain? → approx. 6–12 months. However, we suggest to recharge it every 2–3 months.
- How long is the lifetime of TX-120? → About 3–5 years.
- How many times can TX-120 jump start the vehicle if it is in full charged? → approx. 20 times.
- No response when pressing the switch button (On/Off) of TX-120
→ Reason: maybe low voltage protection of TX-120 is started
→ Solution: plug in TX-120 to charge it.

Warnings

- Do not disassemble the device by yourself (voiding the warranty). Use the original home charger to recharge the device, or it may reduce the lifetime of the device.
- Make sure the blue plug of the cable into the socket of the device tightly, otherwise it cannot jump start the vehicle, and even make the joint melt.
- Do not start up car with the car jump starter when the power is less than 60% (3 BLUE LEDs or less are lighting) to avoid any damage. Take the product away after the car starts within 30 seconds. Otherwise may cause accidents. When finding the device expands, do not use it to start the car, to avoid safety accident.
- This product cannot be continuous to start the car, it may cause damage to the product.
- Each time you start the interval must be longer than 30 seconds. When starting the car continuously with 30 seconds pause, and it is not successful after 3 times, then stop starting to avoid causing damage to the device or safety accident.

- It will cause severe damage to the device when starting the car via this device continuously or use this device to start the car whose starting power is over this device, and it may cause safety accident easily.
- Make sure the battery clamps are well connected. If battery connector is rusted or dirty please clean it first, or the vehicle cannot be started. Make sure the red clamp is connected to the positive pole, and the black clamp to the negative pole. Do NOT connect in the opposite way or it may damage the car.
- **Once the blue EC5 connector of the clamps is connected to the EC5 port of the TX-120, NEVER (!) connect the two clamps together as this will cause a short circuit.**
- **Keep the device away from children. It should be only used by adults.**

Indoor Storage Hints

- ➔ Make sure it is out of range for the kids.
- Make sure it is far from fire and the object whose surface temperature is over 60°C, to avoid severe damage or burning.
- Make sure it is stored in no corrosive gas environment.
- Make sure it is stored in the environment between 15°C–35°C, then the device will be originally good for 6 months.

Car Storage Hints

- ➔ Remove the product and keep it indoors when the car interior temperature is not between –10°C up to 60°C to prevent serious damage or explosion.
- Make sure the device in the suitable position, to avoid damage caused by bumping.