Qoltec®

USER MANUAL

MULTIFUNCTIONAL JUMP STARTER WITH POWER BANK AND LED TORCH.

Model: 52820

Introduction

Thank you for your trust and for purchasing our product. We have made every effort to ensure that the device provides practical support in everyday use and in emergencies. This user manual has been prepared to help you use the device correctly and safely. It contains guidance on use, charging and operating the additional functions, as well as important safety information. If you have any questions after reading this manual, please contact NTEC sp. z o.o.

About the product

Portable jump starter with power bank function and built-in LED torch. It allows you to start vehicles with a flat battery in an emergency without the need for assistance from another car. The product can be used with vehicles with a 12V electrical system and petrol engines up to 4.0 l or diesel engines up to 2.0 l. Additional USB ports allow you to charge mobile devices such as smartphones, tablets and other digital devices.

Main product features

- Portable jump starter designed for emergency starting of vehicles with a flat battery.
- The device can be used with petrol engines up to 4.0 l and diesel engines up to 2.0 l.
- Peak current 1000 A, starting current 400 A.
- Power bank function for charging mobile devices via USB, e.g. a phone, tablet or other digital devices.
- Built-in LED torch with steady light, SOS and strobe modes.
- The device is charged via a USB-C 5 V / 2 A port.

Safety instructions

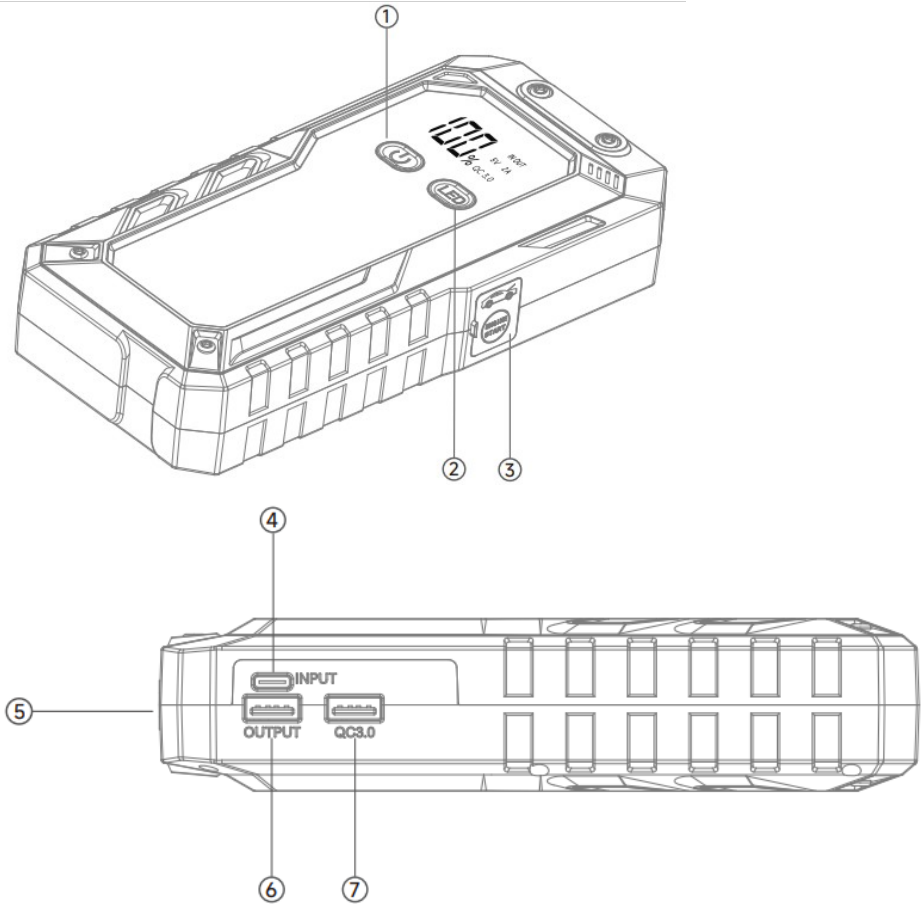
CAUTION! Read the user manual before first use. Following the recommendations it contains will ensure safe and correct use of the device. Before connecting the device, always check the polarity of the battery to avoid a short circuit or reverse connection of the clamps.

1. Use the device only for its intended purpose and in accordance with the manufacturer's recommendations.
2. Ensure adequate ventilation when working with batteries. Batteries can emit explosive gases – avoid naked flames, sparks and sources of high temperature.

3. Do not use the device near flammable materials, explosive gases, liquids, vapours or dust.
4. Battery acid is corrosive. When working near a battery, wear full eye protection, protective clothing and personal protective equipment.
5. When working with a lead-acid battery, remove personal metal items such as rings, bracelets, necklaces and watches.
6. If battery acid comes into contact with your skin or clothing, immediately wash the area with soap and water. If acid gets into your eye, immediately rinse the eye under cold running water for at least 10 minutes and seek medical attention without delay.
7. Take particular care to reduce the risk of dropping a metal tool onto the battery. This could cause sparking or short-circuit the battery or another electrical component, which could cause an explosion.
8. Do not smoke or allow sparks or flames to occur while using the device.
9. The product is not intended for use by children or by persons who are unable to follow the instructions.
10. Do not open the housing or attempt to carry out repairs yourself. In the event of damage, contact an authorised service centre.
11. Do not use the device if the cables, connectors or clamps are damaged.
12. Do not allow the clamps to touch each other or any other electrically conductive parts.
13. Do not touch the metal parts of the clamps while the device is in operation.
14. Protect the device from water, moisture, rain and prolonged exposure to sunlight.
15. Do not use the device with wet hands and do not immerse it in liquids.
16. Store the device in a dry place, away from heat sources and high temperatures.
17. Protect the device from falls, impacts and other mechanical damage.

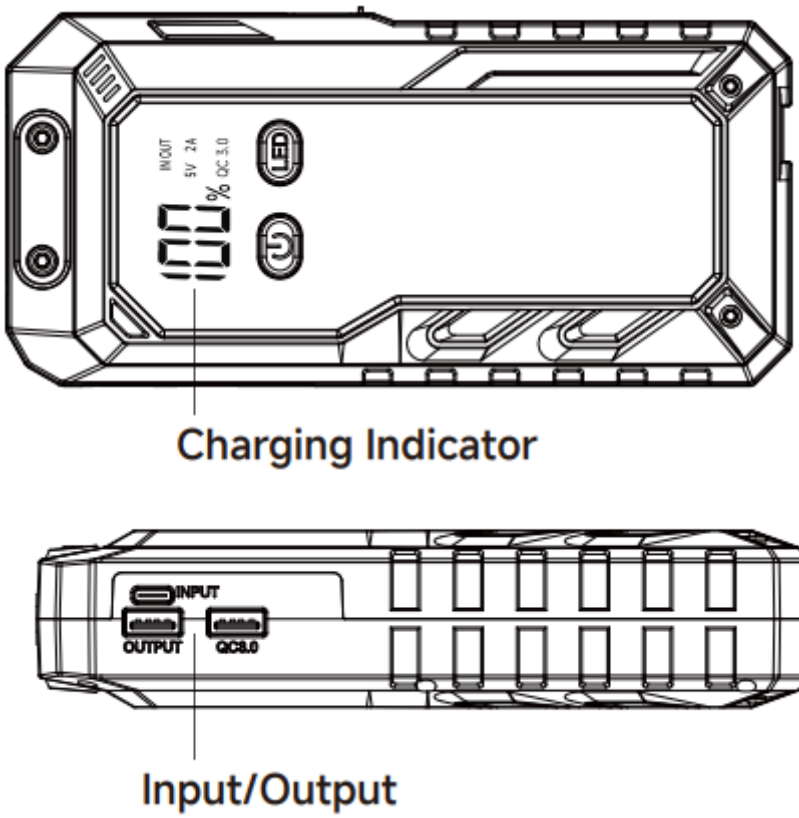
WARNING: Failure to follow the above recommendations may result in damage to the device or the vehicle battery and may pose a risk to the health and life of the user.

Device diagram



1. Power button
2. Torch button
3. EC5 port
4. Type-C input: 5 V / 2 A
5. Torch
6. USB output: 5 V / 2 A
7. USB output: QC3.0

Charging the device



English	Polish
Charging Indicator	Charging indicator
Input	Input
Output	Output

1. Connect the USB-C cable to the charging port on the jump starter.
2. Connect the other end of the USB cable to a mains charger.
3. Plug the charger into a power socket.
4. Wait until the device is charged.

Note: the mains charger is not included.

Operating rules

1. Before use, make sure that the jump lead is correctly and fully connected to the jump starter.

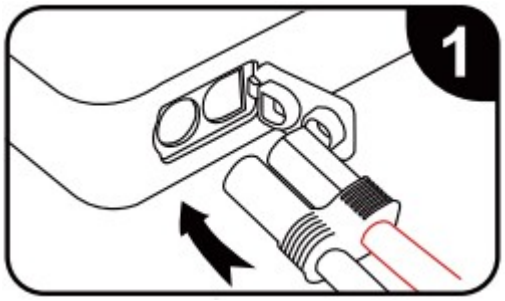
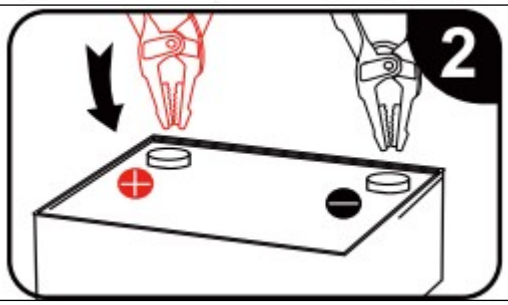
2. The device is designed for vehicles with a 12 V electrical system and petrol engines up to 4.0 l or diesel engines up to 2.0 l. Do not use it with vehicles with a different voltage or a larger engine capacity.
3. Connect the clamps according to the battery polarity: red to the positive terminal (+), black to the negative terminal (-).
4. Make sure that the clamps make firm contact with the battery terminals and do not touch each other.
5. If the vehicle fails to start, wait at least 1 minute before trying again.
6. Do not make more than three consecutive attempts to start the vehicle. If the vehicle still does not start, check the condition of the battery and the electrical system.
7. Once the vehicle has started, disconnect the clamps from the battery within 30 seconds.
8. Do not use the device as a replacement for a car battery.
9. Charge the device only via the USB-C port and recharge it at least once every 3 months, even when it is not in use.

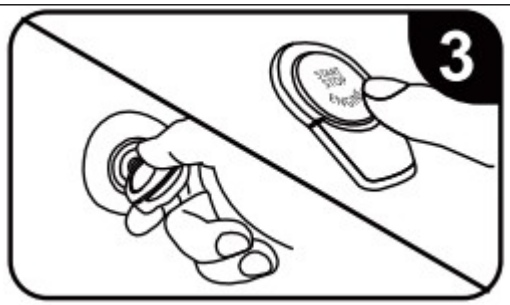
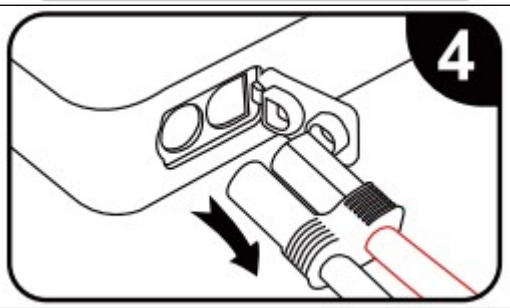
CAUTION: Do not use the device continuously. Each starting attempt should be as short as possible.

Starting a vehicle with the jump starter

Switch on the device and make sure that the battery charge level is above 75%.

Note: If the battery charge level is below 75%, it may not be possible to start the vehicle.

	Switch on the jump starter and make sure that the device's charge level is above 75%. Then connect the jump lead to the device's port, making sure that it is inserted correctly and securely.
	Connect the jump starter clamps to the vehicle battery terminals according to the markings: red to the positive terminal (+), black to the negative terminal (-).

	When the green indicator lights up, start the engine within 30 seconds.
	Disconnect the jump lead from the jump starter port, then disconnect the clamps from the vehicle battery terminals.

LED indicator

LED	**Meaning**
The red LED is lit continuously and the device emits an audible signal.	The device's charge level is too low to start the vehicle. Charge the device.
The green and red LEDs flash alternately.	The device is ready for use.
The red LED is lit continuously and a short audible signal is heard.	The device temperature is too high, probably after several starting attempts. Wait until the device has cooled down.
The red LED is lit continuously and a continuous beep sounds.	The clamps have been connected the wrong way round. Check the polarity and reconnect: red to “+”, black to “–”.
The red LED is lit continuously, a beep sounds, followed by two short beeps.	A short circuit has occurred or there is a problem with the vehicle battery. Stop the jump-start attempt and check the battery and the connections.
The green and red LEDs flash alternately, and after 1–2 seconds only	The connection is correct. You can start the vehicle.

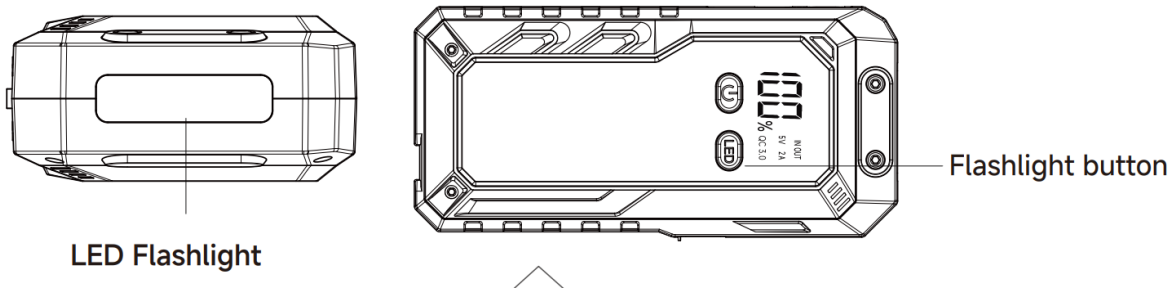
the green LED stays lit.	

Power bank

Charging devices via USB

1. Connect the USB cable to the USB output port on the jump starter.
2. Connect the other end of the cable to the charging port on your mobile device.
3. Press the power button on the jump starter to start charging.

LED torch



1. Press the LED button to switch on the torch. Once switched on, the battery level indicator will light up.
2. Briefly pressing the torch button cycles through the available lighting modes:

- constant light,
- SOS mode,
- strobe mode.

3. To switch the device off, press and hold the torch button for approximately 3 seconds.

Technical specifications

Parameter	Specification
Model	52820
Battery type	lithium polymer (Li-Po)
Battery capacity	10000 mAh / 14.8 V / 37 Wh
Charge cycles	1000
Peak current	1000 A

Cranking current	400 A
Charging voltage	14.8 V
Input voltage (charging port)	5 V / 2 A (USB-C)
Output voltage (USB port)	5 V / 2 A USB-A, 5 V / 3 A USB-A
Operating temperature	0°C - 45°C
Full charging time of the device	Approx. 7 hours
IP	IP50
Supported engines	Petrol engine: up to 4.0L displacement, diesel engine: up to 2.4L displacement

Maintenance

The device requires minimal maintenance. Regularly following a few simple rules will keep the jump starter in good technical condition and extend its service life.

1. Before cleaning, make sure that the device is not connected for charging or to the vehicle battery.
2. Clean the housing, cables and clamps with a soft, slightly damp cloth.
3. Do not use aggressive chemicals, solvents or abrasive materials.
4. Do not immerse the device, cables or clamps in water or other liquids.
5. After use, disconnect the cables and arrange them so that they are not bent, twisted or exposed to damage.
6. Check the clamps regularly and, if necessary, clean off any dirt or traces of corrosion, then dry them thoroughly.
7. Store the device away from moisture and heat sources.
8. Any repairs and servicing other than basic cleaning should only be carried out by qualified personnel.

Disposal

The used product should be taken to an appropriate collection point for waste electrical and electronic equipment, where it will be properly recycled. Do not dispose of the product with household waste.

Warranty

The product is covered by a 24-month manufacturer's warranty from the date of purchase.

If you experience any problems, please contact our customer service department.