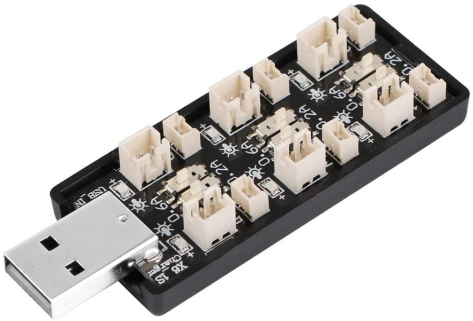
X6_1S Charger

Six-channel USB charger for Li-Po 1S batteries
Crazepony · LiPo Version-4.20V



Read this manual and the safety instructions carefully before first use. Keep the manual.

Rotorama, s.r.o. · www.rotorama.cz

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1. Safety instructions

1.1 Before you start

This manual describes the six-channel USB charger **Crazepony X6_1S Charger** in the **LiPo Version-4.20V** version, intended exclusively for charging single-cell (1S) Li-Po batteries. Read this manual carefully before first use and keep it for future reference.

- The product is intended for persons aged 14 and over. It is not a toy.
- Use the product only as described in this manual. Modifying the board or using the product contrary to this manual may result in fire, injury or damage to property.
- **The law of the country of use applies.** The information in Chapters 8 and 9 describes the situation in the Czech Republic. If you use the product in another country, follow the regulations of the country in which you use it.

1.2 Safety when charging Li-Po batteries

※ If handled incorrectly, Li-Po batteries can catch fire or explode. Never leave charging unattended.

- Charge only **single-cell (1S) Li-Po batteries**. Never charge multi-cell batteries, cells of other types (Li-Ion, LiFePO4, NiMH, etc.) or non-rechargeable batteries.
- Charge on a non-flammable surface, away from flammable materials, ideally in a fireproof Li-Po bag.
- Do not charge a damaged, swollen or deformed battery. After a flight, let the battery cool down to ambient temperature.
- If a battery becomes unusually hot or starts to swell during charging, immediately disconnect the charger from the power supply and – if it is safe to do so – move the battery to a non-flammable place.
- The charging current set must not exceed the value permitted by the battery manufacturer (see Chapter 4).
- Always connect **only one battery** to each channel – never use both connectors of one channel at the same time.
- Do not use damaged or modified battery connectors and leads.
- If a battery catches fire, leave the room, do not inhale the smoke and call the emergency number 112.

1.3 Operating environment

- The charger is intended for use in dry indoor areas. Protect it from moisture, liquids, dust and direct sunlight.
- The top of the circuit board is not covered. Make sure no conductive objects (screws, wires, metal filings) get onto it – there is a risk of short circuit.
- Do not place the charger on flammable surfaces (textiles, paper) and do not cover it.
- Keep the product and the batteries out of the reach of children and animals.

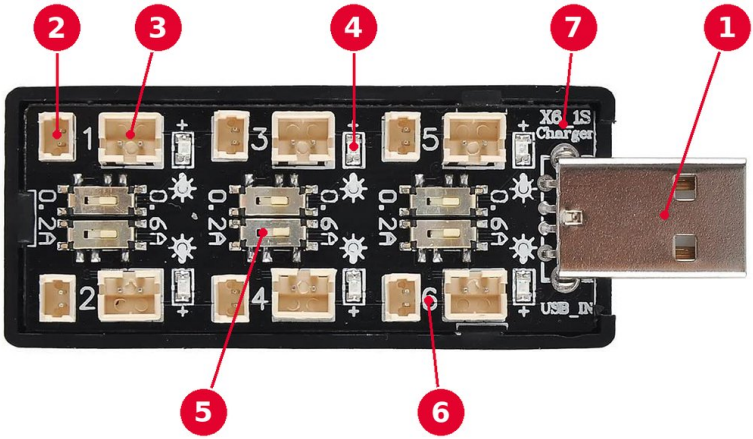
2. Product description

2.1 Package contents

- 1× Crazepony X6_1S Charger (LiPo Version-4.20V)

※ A USB power supply and batteries are not included.

2.2 Parts description



Top view

① USB-A connector (marked USB_IN on the board) – powers the charger.

② Micro JST 1.25 connector (also known as mCX, Pico, Molex 1.25).

③ JST-PH 2.0 connector (also known as mCPX, PowerWhoop).

④ Green LED – channel status indication.

⑤ Charging current switches 0.2 A / 0.6 A – two for each pair of channels.

⑥ Channel number 1–6. Each channel has one Micro JST 1.25 and one JST-PH 2.0 connector.

⑦ Type designation X6_1S Charger.



Bottom cover with the version designation LiPo Version-4.20V

2.3 Technical data

Manufacturer (brand)	Crazepony
Type	X6_1S Charger, version LiPo Version-4.20V
Supported batteries	Li-Po 1S only (3.7 V / 4.20 V)
Number of channels	6, independent
Connectors	6× Micro JST 1.25 (mCX), 6× JST-PH 2.0 (mCPX); only one battery per channel at a time
Power supply	USB-A, 5 V ±5 %, 0.5–2.4 A
Recommended power source	USB 5 V, 2.4 A or more
Charging current	0.2 A or 0.6 A per channel, selected by switch
Charge end voltage	4.20 V ±0.5 %
Indication	6 green LEDs, one for each channel
Dimensions	73 × 25 × 10 mm
Weight	13 g

3. Power supply

The charger is powered via the USB-A connector ① from a standard 5 V USB source – for example a computer USB port, a USB hub or a USB mains adapter. The power supply is not included.

- The manufacturer recommends a power source rated at **2.4 A or more**. A weaker source may not be sufficient for charging several batteries at the same time at the higher current.
- Use only USB power sources bearing the CE marking and in perfect condition.
- Insert the charger into the USB port straight and do not lever it. Neither the connector nor the port may be mechanically stressed, especially with batteries connected.
- When charging is finished, remove the charger from the USB source.

4. Setting the charging current

The charging current is selected with the slide switches ⑤. Between the upper and lower rows of connectors there are three pairs of switches – for channels 1–2, 3–4 and 5–6. Viewed from above with the USB connector on the right, the switch position on the left (next to the **0.2A** print) means 0.2 A and the position on the right (next to the **0.6A** print) means 0.6 A.

- Set the current **before connecting the battery**, on both switches of the respective pair of channels.
- The manufacturer recommends **0.2 A** when charging all six batteries at the same time and **0.6 A** when charging only two.
- The current must not exceed the maximum charging current specified by the battery manufacturer. If it is not specified, charge at no more than 1C, i.e. a current in amperes equal to the capacity in ampere-hours – for a 300 mAh battery no more than 0.3 A, i.e. in the 0.2 A position.
- A lower current extends the charging time but puts less stress on the battery.

5. Charging

5.1 Charging procedure

① Check the batteries – they must not be damaged, swollen or hot.

② Set the charging current with the switches ⑤ according to Chapter 4.

③ Insert the charger into the USB source. The LEDs flash green – the charger is powered.

④ Connect the battery to the connector of the matching type ② or ③. Insert the connector in the correct orientation, without force. Connect only one battery to each channel.

⑤ The LED of the respective channel lights up green – the battery is charging.

⑥ When the LED stops lighting steadily, the battery is charged. Disconnect it and, when charging is finished, remove the charger from the USB source.

※ When charging six batteries at the same time, take their width into account – wider batteries may not fit into adjacent channels. In that case, charge fewer batteries at a time, using every other channel.

5.2 LED meaning

LED status	Meaning
flashing, no battery connected	the charger is powered
steadily lit	the battery is charging
stops lighting steadily	the battery is charged to 4.20 V

5.3 Li-Po 1S battery voltages

Battery state	Cell voltage
fully charged	4.20 V
end flight / discharge	3.5 V
storage	3.8 V

- Always put a **fully charged** battery into the model before a flight.
- Do not discharge the battery below 3.5 V – deep discharge damages it permanently.
- Store a battery that you will not use for a longer time at 3.8 V.

6. Maintenance and storage

- Keep the charger clean and dry. Remove dust with a dry soft brush; do not use water or solvents.
- Check the connectors regularly. A loose, cracked or burnt connector is a reason to stop using the charger.
- Do not repair or modify the charger.
- Store it in a dry place, out of the reach of children and separately from batteries.
- Store batteries at 3.8 V per cell in a non-flammable container.

7. Troubleshooting

Problem	Possible cause and solution
No LED lights up or flashes	The charger is not powered. Check that it is inserted in the USB port and that the source is switched on; try another USB source.
LED does not light up after connecting a battery	The connector is not inserted properly. If it is, the lead or the battery may be faulty – do not use such a battery any further.
Charging several batteries is slow or interrupted	The source is insufficient. Use a source of 2.4 A or more, or set the current to 0.2 A.
The battery gets hot during charging	The current is too high for the battery. Disconnect it immediately and set 0.2 A. Discard a swollen battery.
The battery cannot be inserted	Wrong connector type or orientation. Check the type (Micro JST 1.25 / JST-PH 2.0) and the orientation, do not use force.
Batteries do not fit next to each other	They are too wide. Charge fewer batteries at a time, using every other channel.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.cz

8.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation X6_1S Charger is printed on the charger board, the version designation LiPo Version-4.20V on its bottom cover.

8.3 Disposal of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

9. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.