6 Ports 1S Battery Charger

6× 1S LiHV Charger · BT2.0 / PH2.0
User Manual



Read the entire manual carefully before first use, especially chapter 1 Safety instructions. Keep the manual for future reference and pass it on together with the product.

Manufacturer: BETAFPV · EU importer: Rotorama, s.r.o.

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1. Safety instructions

1.1 General rules

The charger is intended exclusively for charging single-cell (1S) batteries with a BT2.0 or PH2.0 connector. Any other use is not permitted.

- The product is **not a toy**. It is intended for persons aged 14 and over; younger users may only use it under the supervision of an adult.
- **Never leave charging unattended** – keep the charger and the batteries in sight.
- Place the charger on a **firm, flat and non-flammable surface**, away from flammable objects (paper, textiles, carpets, curtains) and out of reach of children and animals.
- Do not cover the charger or use it in an enclosed space (box, bag, pocket) – it heats up. Use it only indoors in dry conditions, away from water, dust, metal objects and direct sunlight.
- Do not open or modify the charger. Do not continue to use a damaged charger or a charger with a damaged connector.
- In case of unusual heating, odour, smoke or deformation of a battery, disconnect the power supply and the batteries immediately. Do not extinguish a burning Li-Po battery with water – use a fire extinguisher or dry sand.
- Power the charger only via the **USB-C** connector from a **5–12 V** source (chapter 3). Use a power adapter and cable in perfect condition, bearing the CE marking.

1.2 Li-Po and LiHV batteries

- Charge only **single-cell (1S)** Li-Po or LiHV batteries. Never charge multi-cell batteries, batteries of other chemistries (NiMH, Li-Ion, $LiFePO_4$) or non-rechargeable batteries.
- The end-of-charge voltage must match the battery type: **Li-Po 4.20 V/cell**, **LiHV 4.35 V/cell**. Never charge a Li-Po battery (4.20 V) with the switch in the 4.35V position – this risks overcharging, damage and fire.
- Each port charges with a current of **up to 1 A**. Only charge batteries rated for a charging current of at least 1 A.
- Each port has a BT2.0 and a PH2.0 connector. **Never connect two batteries to one port at the same time** – this damages them.
- Do not charge a hot battery – let it cool down after a flight.
- Do not charge batteries that are swollen, punctured, deformed, or have a damaged wrap or cable.
- Do not store batteries fully charged. For longer storage, bring them to **3.8 V/cell**.

2. Product description

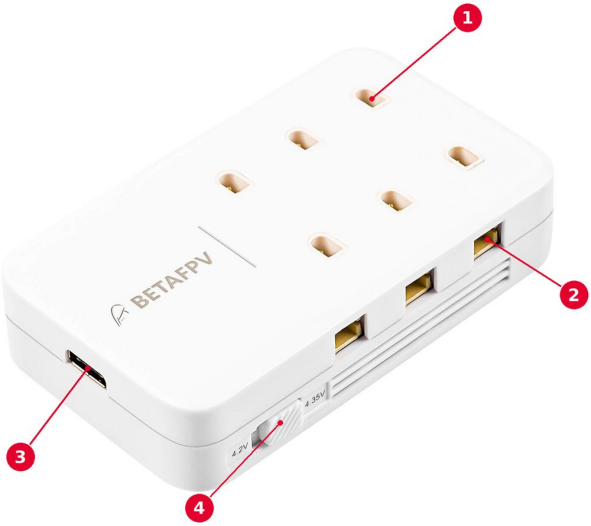
The BETAFPV 6 Ports 1S Battery Charger charges up to six single-cell batteries at once. Each of the six ports has both a **BT2.0** and a **PH2.0** connector, so batteries with either connector type can be charged at the same time. It is powered via USB-C and supports the PD3.0, QC3.0 and BC1.2 fast-charging protocols.

2.1 Package contents

- 1× 6 Ports 1S Battery Charger
- 1× user manual

※ A power adapter and a USB-C cable are not included.

2.2 Parts overview



The picture shows a unit from an earlier production batch with the switch marked 4.2V / 4.35V.

① **BT2.0 connectors** – 6× on the top side, one for each port.

② **PH2.0 connectors** – 6×, three on each of the two longer sides, one for each port.

③ **USB-C power input** – the orange power mode indicator is next to it (chapter 5.2).

④ **Charge voltage switch** (chapter 4.1).

Each port has a green indicator showing the charging status (chapter 5.1).

2.3 Technical data

Parameter	Value
Designation	6 Ports 1S Battery Charger
Number of ports	6 (each with a BT2.0 and a PH2.0 connector)
Input connector	USB-C
Input voltage	5–12 V
Max. input power	30 W
Max. input current	2.5 A
Max. charging current	1 A (per port)
Charging protocols	PD3.0 / QC3.0 (5 V / 9 V / 12 V) / BC1.2
Battery type	1S LiHV 4.35 V ※
Dimensions	79 × 46 × 19 mm

※ Units from earlier production batches also have a 4.2V switch position for Li-Po batteries – see chapter 4.1.



Charger dimensions

3. Powering the charger

3.1 Choosing a power adapter

The charging speed depends on the power adapter used. The charger reaches the full charging current of 1 A on every port with all six ports in use only with an adapter that supports fast charging.

- **Recommended:** a USB-C adapter supporting **PD (Power Delivery)** with an output of **at least 30 W**.
- With an adapter below 30 W or a standard 5 V / 2 A adapter, each port receives less than 1 A when all six ports are in use, and charging takes significantly

longer.

- Some manufacturer-specific adapters (including certain Apple, Xiaomi, vivo and OPPO models) may not support PD fast charging.

3.2 Connecting the power supply

① Place the charger on a non-flammable surface (chapter 1.1).

② Plug the USB-C cable into the charger input ③ and then into the power adapter.

③ Plug the power adapter into the mains socket.

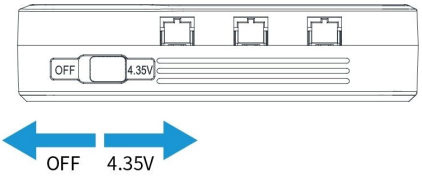
④ Check the orange indicator next to the USB-C input: **off** = fast charging active, **on** = low-power charging (chapter 5.2).

4. Charging

4.1 Charge voltage switch

The switch ④ on the side of the charger sets the charge voltage. Its markings differ depending on the production batch:

Production batch	Left position	Right position
newer	OFF	4.35V – LiHV
earlier	4.2V – Li-Po	4.35V – LiHV



Switch on newer batches: OFF on the left, 4.35V on the right

- **LiHV batteries (4.35 V):** set the switch to the right position, **4.35V**.
- **Li-Po batteries (4.20 V):** charge them only on a unit that has the **4.2V** position. Do not charge Li-Po batteries on a unit with the OFF position; use another charger set to 4.20 V/cell.

Always set the switch position before connecting the batteries and do not change it during charging.

4.2 Charging procedure

① Check that the batteries are not damaged, swollen or hot (chapter 1.2).

② Set the switch ④ according to the battery type (chapter 4.1).

③ Connect the power supply (chapter 3.2). The green indicators of free ports flash – no battery is connected to the port.

④ Connect the batteries – **only one** per port, using either the BT2.0 or the PH2.0 connector. Insert the connector fully and in the correct orientation, without using force.

⑤ The green indicator of an occupied port lights up – the battery is charging.

⑥ When the green indicator goes out, charging is complete. Disconnect the battery.

⑦ After all batteries have been charged, disconnect the charger from the power supply.

Each port charges independently, so the batteries may finish charging at different times.

4.3 Charging time

According to the manufacturer, with a 30 W fast-charging power adapter six BETAFPV BT2.0 300 mAh 1S batteries are fully charged in about **25 minutes**. The charging time depends on the capacity and discharge level of the batteries and on the adapter used – with an adapter below 30 W it is significantly longer (chapter 3.1).

5. LED indicators

5.1 Green LEDs – port status



Green indicators next to the individual ports

Green indicator	Meaning
flashing	No battery connected / battery not detected
on	Charging in progress
off	Charging completed

If the green indicator is neither on nor flashing at a port with no battery connected, the charging circuit of that port is faulty. Do not use this port for charging.

5.2 Orange LED – power mode



Orange indicator next to the USB-C input

Orange indicator	Meaning
on	Low-power charging
off	Fast charging active

If the orange indicator is on, use a power adapter supporting PD with an output of at least 30 W (chapter 3.1).

6. Maintenance and storage

- Keep the charger clean and dry. Clean it only with a dry soft cloth, never with water or solvents.
- Keep the connectors clean and undamaged; do not insert metal objects into the ports.
- Do not leave batteries permanently connected to the charger after charging.
- Store the charger disconnected from the power supply, in a dry place, at room temperature and out of reach of children.
- Store batteries separately, preferably in a fireproof bag, and bring them to 3.8 V/cell for longer storage.

7. Troubleshooting

Problem	Cause and solution
Green indicator flashes although a battery is connected	The port has not detected the battery. Check that the connector is fully inserted and correctly oriented, and that no second battery is connected to the port. Try another port.
Green indicator neither on nor flashing at a free port	The charging circuit of the port is faulty. Do not use the port and contact the seller (chapter 9).
Orange indicator on, charging is slow	The adapter does not support fast charging. Use a USB-C adapter supporting PD with an output of at least 30 W.
No indicator lights up	The charger has no power. Check the adapter, the USB-C cable and the mains socket.
Battery heats up, swells or smells	Immediately disconnect the power supply and the battery and do not use the battery any further (chapter 1.2).

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 (6 Ports 1S Battery Charger) and the manufacturer's code 01120002_3 are stated on the product packaging.

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.