EasyPower E16

1S Li-Po HV battery charger
6 channels · USB-C PD3.0 · Flywoo



For 1S Li-Po HV batteries (4.35 V) only. Read this manual carefully before use.

User manual

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1. Safety instructions

1.1 Before you start

Thank you for choosing the Flywoo EasyPower E16 charger. Read this entire manual carefully before first use and keep it for future reference. If you pass the charger on to another user, include this manual.

- The product is intended for persons aged 14 and over.
- The charger is intended **exclusively for charging and storing single-cell (1S) Li-Po HV (LiHV) batteries with a maximum voltage of 4.35 V**. Do not charge any other type of battery.
- Do not disassemble or modify the charger. Do not use a damaged charger, cable or power adapter.
- The legal information in this manual describes the situation in the Czech Republic. If you use the product in another country, follow the regulations of the country in which you operate it.

1.2 Charging Li-Po HV batteries

Li-Po and Li-Po HV batteries can catch fire or explode if handled incorrectly. Never leave batteries unattended while charging.

- **Do not charge standard Li-Po batteries with a maximum voltage of 4.20 V.** The charger charges them to 4.35 V, i.e. above their permitted voltage. This risks overcharging, swelling and fire.
- The charging current cannot be adjusted; the charger charges at up to **1.5 A** per channel. Check the battery manufacturer's data to make sure the battery's permitted charging current is at least 1.5 A. Do not charge batteries with a lower permitted charging current with this charger.
- Never charge a battery that is swollen, deformed, mechanically damaged, has a damaged wrap, cable or connector, or has been subjected to an impact in a crash.
- Do not charge a battery that is hot after a flight. Let it cool down to ambient temperature first.
- If a battery swells, heats up, or emits smoke or an odour during charging, disconnect the charger's power supply immediately and, from a safe distance, move the battery onto a non-flammable surface.
- Never connect a battery with an A30 / BT2.0 connector and a battery with a PH2.0 connector to the same channel at the same time – this may damage the charger (see Chapter 4.2).

1.3 Operating environment

- Charge on a firm, level and non-flammable surface (e.g. a ceramic tile, stone slab or fireproof battery bag), away from flammable materials.
- Do not cover the charger's ventilation openings and ensure free air circulation.
- Use the charger only indoors in a dry environment. Protect it from moisture, liquids, dust and direct sunlight.
- Keep a fire-extinguishing agent within reach (e.g. a fire extinguisher or a container of sand).
- Keep the charger and batteries out of the reach of children and pets.

2. Product description

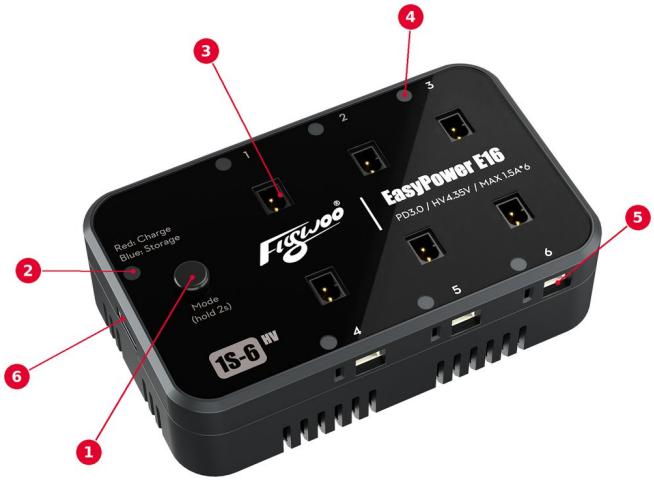
The Flywoo EasyPower E16 is a six-channel charger for single-cell Li-Po HV batteries, powered via USB Type-C with the PD3.0 protocol. It is operated with a single button and has two modes: **Charge** (charging to 4.35 V) and **Storage** (storage at 3.85 V). The charger starts charging a battery automatically once it is connected. Tri-colour LEDs show the status of each channel.

2.1 Package contents

- 1× Flywoo EasyPower E16 (1S) charger
- 1× manual

※ The power adapter and the USB-C cable are not included. The requirements for the power adapter are given in Chapter 3.

2.2 Parts description



Flywoo EasyPower E16 charger

① **Mode** button – switches the mode (hold for 2 s)

② Mode LED – red: *Charge* (charging), blue: *Storage* (storage)

③ Channel connector for batteries with an **A30 / BT2.0** connector (top side, channels 1–6)

④ Channel LED – at each channel, next to the channel number

⑤ Channel connector for batteries with a **PH2.0** connector (sides; channels 1–3 on the rear, 4–6 on the front side)

⑥ **USB Type-C** power input (side next to the Mode button)

2.3 Technical data

Parameter	Value
Model	EasyPower E16
Power input	USB Type-C
Input voltage	9–20 V
Charging protocol	PD3.0
Minimum power supply output	45 W
Number of channels	6
Max. charging current	1.5 A × 6
Battery type	1S Li-Po HV (LiHV), 4.35 V
Charge mode	charging to 4.35 V
Storage mode	charging / discharging to 3.85 V
Battery connectors	A30 / BT2.0, PH2.0
Protection	over-voltage, over-current and overheating
Dimensions	88 × 54 × 26.5 mm
Weight	63.5 g

3. Powering the charger

3.1 Power adapter requirements

The charger is powered by an external USB-C power adapter. The adapter must meet all of the following conditions:

- it supports the **USB Power Delivery 3.0 (PD3.0)** fast-charging protocol – the charger does not support other fast-charging protocols,
- it delivers **at least 45 W**,
- the manufacturer recommends a **GaN** adapter (Flywoo 65W GaN Charger).

If powered by an adapter with insufficient output or without PD3.0 support, the charger will not work properly.

Use a good-quality USB-C to USB-C cable designed for USB Power Delivery and rated for the adapter's output. The power adapter must be undamaged and comply with the requirements of EU legislation (CE marking).

3.2 Connecting the power supply

① Connect the USB-C cable to the charger's power input ⑥.

② Connect the other end of the cable to the power adapter and plug the adapter into a mains socket.

③ The mode LED ② lights up – red (*Charge* mode) or blue (*Storage* mode).

4. Connecting batteries

4.1 Channel connectors

Each of the six channels has two connectors: on the top side a connector for batteries with an **A30 / BT2.0** connector ③, and on the side a connector for batteries with a **PH2.0** connector ⑤. The number next to the connector identifies the channel; the channel status is shown by the LED ④ with the same number.

- Insert the battery connector straight and all the way in. Make sure the connector is oriented correctly; do not use force.
- When disconnecting, pull on the connector body, never on the wires.
- All channels operate in the same mode, selected with the Mode button.

4.2 One channel = one battery

Never connect a battery to the top A30 / BT2.0 connector and another battery to the side PH2.0 connector of the same channel at the same time – this may damage the charger.



Left: correct connection of the power adapter. Right: WRONG – two batteries in one channel (top and side connector).

5. Operation

5.1 Selecting the mode

To switch the mode, **press and hold the Mode button ① for 2 seconds**. The selected mode is indicated by the mode LED ②:

Mode LED	Mode	Function
red	Charge	charges batteries to 4.35 V
blue	Storage	storage – charges or discharges batteries to 3.85 V

Always select the mode **before connecting the batteries**.

Channel LED indication ④

Mode	In progress	Nearly done	Completed
Charge (mode LED red)	solid red	flashing green	solid green
Storage (mode LED blue)	solid blue	flashing green	solid green

5.2 Charging (Charge mode)

① Connect the power supply as described in Chapter 3.2 and hold the Mode button for 2 s to select *Charge* mode – the mode LED lights **red**.

② Connect the battery to a channel. Charging starts automatically and the channel LED lights **red**.

③ A nearly charged battery is indicated by the channel LED **flashing green**, a fully charged battery by a **solid green** light. Then disconnect the battery.

5.3 Storage (Storage mode)

Storage mode prepares batteries for longer storage. A battery with a voltage below 3.85 V is charged to 3.85 V, a battery with a higher voltage is discharged to 3.85 V.

① Connect the power supply as described in Chapter 3.2 and hold the Mode button for 2 s to select *Storage* mode – the mode LED lights **blue**.

② Connect the battery to a channel. The channel LED lights **blue**.

③ Approaching completion is indicated by the channel LED **flashing green**, completed storage by a **solid green** light. Then disconnect the battery.

6. Handling Li-Po HV batteries

A single-cell (1S) battery has one cell, so the cell voltage and the battery voltage are the same. For Li-Po HV batteries we recommend observing the following values:

1S Li-Po HV battery state	Voltage
fully charged	4.35 V
end the flight	3.5 V
storage	3.8 V

- Before flying, insert a **fully charged** battery into the model.
- Do not discharge batteries below 3.5 V. A deeply discharged battery loses capacity and may be damaged.
- If you will not use a battery for more than a few days, bring it to storage condition – the charger's *Storage* mode charges or discharges it to 3.85 V.
- Store batteries at room temperature, in a dry, non-flammable place, ideally in a fireproof bag, and never store them fully charged or completely discharged.
- Do not dispose of swollen, damaged or unusable batteries in mixed waste – take them to a battery collection point.

7. Maintenance and troubleshooting

7.1 Maintenance and storage of the charger

- When charging is finished, disconnect the batteries and the power supply.
- Clean the charger with a dry, soft cloth. Do not use water, solvents or cleaning agents.
- Keep the connectors and ventilation openings clean and free of dust and foreign objects.
- Store the charger in a dry place, out of the reach of children, protected from impacts and moisture.

7.2 Troubleshooting

Problem	Possible cause and solution
The charger does not work or does not work properly	The power adapter does not deliver at least 45 W or does not support PD3.0. Use an adapter as described in Chapter 3.1. Check the USB-C cable and that it is fully inserted at both ends.
The channel LED does not light up after connecting a battery	The battery connector is not fully inserted or is damaged. Disconnect the battery, check the connector and connect it again.
The charger charges to a different voltage than expected	A different mode is selected. Check the colour of the mode LED to see whether Charge (red) or Storage (blue) mode is set.
The battery heats up or swells during charging	Stop charging immediately, disconnect the power supply and move the battery onto a non-flammable surface. Do not use the battery any more.
Li-Po 4.20 V battery	The charger is not intended for standard Li-Po batteries (4.20 V). Charge such batteries with a charger that supports them.

If the problem persists, contact the seller (Chapter 8.1).

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 (EasyPower E16) is printed on the top of the charger.

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.