GEPRC GEP-C1

Dual-channel charger for 1S LiHV batteries
User manual



Read this entire manual before first use, in particular the safety instructions in Chapter 2. The charger is intended exclusively for single-cell (1S) LiHV batteries with a charge voltage of 4.35 V.

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1. Product description

1.1 What it is for

GEPRC GEP-C1 is a compact dual-channel charger for single-cell (1S) **LiHV** batteries as used in small FPV drones (tiny whoops, micro drones). It is powered via a **USB-C** connector, so you can connect it to a USB mains adapter, a power bank or a laptop – in the field, a power bank is all you need.

The charger has two independent channels (CH1 and CH2) and charges up to two batteries at the same time, each at up to 1 A. Each channel has two connectors – **GNB27** and **PH2.0**. The digital display shows the battery voltage, the status light shows the charging progress and the built-in buzzer signals the end of charging. When not charging, the GEP-C1 can also be used as a battery voltage checker.



GEP-C1 charger powered from a power bank

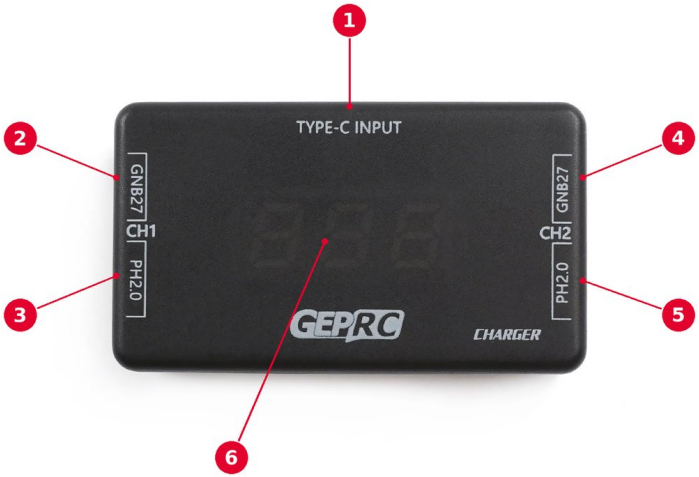
1.2 Specifications and package contents

Product designation	GEPRC GEP-C1
Manufacturer	GEPRC (www.geprc.com)
Input	USB-C, 5 V DC, 2 A
Output	4.35 V DC, 1 A × 2 channels
Max. total output current	2 A
Max. power	10 W
Battery type	1S LiHV (charge voltage 4.35 V)
Output connectors	GNB27 and PH2.0 on each channel
Indication	voltage display, status light, buzzer
Dimensions	52 × 30 × 14.5 mm

Package contents: GEP-C1 charger, manufacturer's manual, aluminium foil protective bag, manufacturer's after-sales card.

Not included: USB-C cable, USB mains adapter or power bank, and batteries.

1.3 Parts



Top view

① **USB-C** input (TYPE-C INPUT) – charger power supply
② Channel **CH1** – GNB27 connector
③ Channel **CH1** – PH2.0 connector
④ Channel **CH2** – GNB27 connector
⑤ Channel **CH2** – PH2.0 connector
⑥ Display – shows the battery voltage

Always connect only one battery to each channel. Never connect batteries to the GNB27 and PH2.0 connectors of the same channel at the same time.

2. Safety instructions

Lithium batteries store a large amount of energy. If charged incorrectly, damaged or short-circuited, they can overheat, swell or catch fire. Therefore observe the following rules:

- Charge **only single-cell (1S) LiHV batteries** whose manufacturer permits a charge voltage of 4.35 V. The charger charges to 4.35 V – do not connect batteries with a charge voltage of 4.20 V (standard Li-Po), multi-cell batteries, batteries of other chemistries (NiMH, LiFePO4, Li-Ion) or non-rechargeable batteries.
- **Never leave charging unattended.** Charge on a non-flammable surface, away from flammable objects, ideally in a fireproof battery bag.
- Do not charge a battery that is swollen, mechanically damaged, has a damaged wrap or leads, or has been in a crash. Do not charge a battery that is still hot after a flight either – let it cool down.
- Connect only one battery to each channel and make sure the connector is inserted correctly.
- If the battery or the charger becomes excessively hot during charging, the battery swells, you notice an odour or smoke appears, immediately disconnect the power supply and the battery and move them to a safe place.
- Power the charger only from a USB source with a 5 V output. Use an undamaged USB-C cable.
- The charger is intended for use in a dry environment. Protect it from water, moisture, dust, direct sunlight and heat. Do not cover the ventilation openings on the underside.
- Do not open or modify the charger. Do not use a damaged charger.
- The charger and batteries are not toys. Keep them out of the reach of children and animals.

3. Use

3.1 Powering the charger

Plug a USB-C cable into input ① on the charger and the other end into a power source: a USB mains adapter, power bank, laptop or phone. The source should supply 5 V and 2 A – when charging two batteries at once, a weaker source may not provide the full charging current. With no battery connected, the status light is green.

3.2 Charging a battery

① Connect the charger to USB-C power (Chapter 3.1).

② Insert the battery connector into the matching connector of channel CH1 or CH2 – GNB27 or PH2.0. Connect only one battery to each channel.

③ The status light changes from green to red and the display continuously shows the battery voltage – the battery is charging.

④ When charging is complete, the light changes from red to green and the buzzer beeps three times.

⑤ Disconnect the battery. You can connect another battery to the free channel.

Channels CH1 and CH2 work independently – you can charge one or two batteries at the same time. The charger has a trickle charging function.

A fully charged LiHV battery has a voltage of **4.35 V**. Disconnect the charged battery once the end of charging is signalled and do not leave it in the charger unnecessarily long.

3.3 Status indication

Indication	Meaning
light green, no battery connected	charger is powered and ready
light red	battery is charging
light changes to green, buzzer beeps 3×	battery is charged
display	current battery voltage

3.4 Measuring battery voltage

You can also use the charger as a voltage checker. Simply connect a battery to one of the connectors – the display shows its voltage, even when the charger is not connected to USB-C power.



Battery connected to the charger, the display shows its voltage

Reference values for a single-cell LiHV battery: fully charged **4.35 V**, storage voltage **3.8 V**, end the flight at **3.5 V** at the latest.

4. Maintenance, storage and troubleshooting

- Keep the charger clean and dry. Clean it with a dry soft cloth; do not use solvents or water.
- Check the GNB27 and PH2.0 connectors – they must not be deformed, loose or dirty.
- After use, disconnect the charger from the power supply and disconnect all batteries.
- Store it in a dry place at room temperature, protected against impacts, ideally in the supplied bag.
- Store LiHV batteries that you will not use for a longer time at approximately 3.8 V – never fully charged or fully discharged.

Problem	Possible cause and solution
Display and light stay off after connecting USB-C	The source or cable does not supply power. Try a different USB-C cable and a different 5 V source. Some power banks switch off their output at low load.
The light does not turn red after connecting a battery	The connector is not inserted properly – check it. The battery may already be charged – check the voltage on the display.
Charging two batteries takes a long time	The source does not supply enough current. Use a 5 V source with an output of at least 2 A.
The battery gets hot or swells during charging	Immediately disconnect the power supply and the battery. Do not use the battery any more and hand it in for disposal.

5. Information for the EU and Czech Market

The information in this chapter describes the situation in the Czech Republic. The law of the country in which the product is operated is always decisive – in another country, also follow the local regulations, in particular those on the take-back of electrical waste.

5.1 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.com

5.2 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 (GEP-C1) is given on the rating label on the underside of the charger.

5.3 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.

6. 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 5.1.
- 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.