WooPower W63

Six-channel 1S battery charger
User manual



Read this entire manual carefully before first use and keep it. Never leave batteries unattended while charging.

Manufacturer: GEPRC · Importer: Rotorama, s.r.o.

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1. Safety instructions

The charger works with lithium batteries, which can catch fire or explode if handled incorrectly. Read this entire 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.

1.1 General rules

- **Never leave the charger unattended while charging or discharging.** If any problem occurs, stop operation immediately and follow this manual or contact technical support.
- Before charging, make sure you know the specifications of the battery and set the charger correctly (battery type, current). Incorrect settings can damage the battery or cause a fire or explosion.
- Disconnect the batteries from the charger promptly once charging or discharging is complete.
- Disconnect all batteries before restarting the charger.
- Do not open or modify the charger. Do not use a damaged charger.

1.2 Power supply

- The supply voltage at the XT60 input must be within **7–26 V** DC.
- **Do not connect the XT60 input and the USB-C input at the same time.** Always power the charger from only one of them.
- After disconnecting the USB-C cable, wait **about 8 seconds** before reconnecting it. If it is reconnected too quickly, the charger may not start.

1.3 Li-Po, LiHV and LiFe batteries

- The charger is intended exclusively for **single-cell (1S)** Li-Po, LiHV and LiFe batteries. Do not charge other battery types or non-rechargeable batteries.
- **Never use the BT2.0 and PH2.0 connectors of the same channel at the same time.** Always connect only one battery to each channel.
- Do not charge a battery that is swollen, mechanically damaged, overheated or has damaged leads or a damaged connector. Dispose of such a battery safely.
- Do not charge a battery immediately after a flight while it is still warm. Let it cool down first.
- If a battery becomes unusually hot during charging, swells or smells, stop charging immediately and disconnect the battery.

1.4 Operating environment

- Place the charger on a **heat-resistant, non-flammable and non-conductive surface**. Do not use it on car seats, carpets, cardboard boxes or similar surfaces.
- There must be no flammable or explosive materials near the charger and the batteries being charged.
- Protect the charger from dust, sand, moisture, rain, high temperatures, direct sunlight and strong vibrations.
- Keep liquids and metal particles away from the input connectors and ventilation openings.
- Do not use the charger in a high-temperature environment. Do not cover the ventilation openings on the sides or the fan on the bottom, so that air can flow freely.

1.5 Applicable regulations

We sell this product throughout Europe. EU regulations apply in all member states, but national rules (for example on the take-back of electrical equipment) differ from country to country. The information in Chapters 8 and 9 describes the situation in the Czech Republic. If you use the product in another country, **the law of the country in which you operate the product applies**.

2. Product description

The GEPRC WooPower W63 is a charger for single-cell batteries with **six independent channels**. Each channel can be set individually to charge, discharge or bring the battery to its storage state (storage) without the channels affecting each other. The charger supports Li-Po, LiHV and LiFe batteries with PH2.0 and BT2.0 connectors (compatible with A30).

2.1 Package contents

Item	Quantity
GEPRC WooPower W63 charger	1×
USB-C to USB-C charging cable	1×
User manual (manufacturer)	1×

※ A power adapter or supply battery is not included.

2.2 Parts description



Front view



View of the input side (left) and bottom view (right)

	Part	Function
A	BT2.0 connectors	six output connectors on the top, compatible with A30; the numbers ①–⑥ on the panel indicate the channel
B	Display	1.54" colour IPS display, 240 × 240 pixels
C	CH button	control button (return from the calibration screen, see Chapter 5.3)
D	Scroll wheel	adjusting values by turning; holding it opens the calibration screen (Chapter 5.3)
E	XT60 input	power supply 7–26 V
F	PH2.0 connectors	six output connectors on the sides
G	USB-C input	power supply (PD3.0) and connection to a computer for firmware updates
H	Fan	cooling with smart temperature control
I	Ventilation openings	heat dissipation – do not cover

2.3 Display

The main screen shows the status of all six channels at once.



Main screen (illustrative values from the manufacturer's materials)

- **Top row** – input voltage (IN), temperature, number of the selected channel and run time (Time).
- **Channel tile** – channel number, battery type and set current (e.g. *LiPo 3.0A*), current battery voltage, current and charged capacity in mAh. The bar at the bottom of the tile shows progress.

3. Powering the charger

The charger can be powered in two ways. Always use **only one input**.

3.1 XT60 input

- Input voltage **7–26 V** DC – for example from a Li-Po battery or a regulated DC power supply.
- With all six channels at full load, the charger requires an input power of **at least 100 W**. A power supply or battery with lower output may not cover the full power of the charger.
- Make sure the polarity of the supply cable is correct.

3.2 USB-C input

- Power from a charging adapter or power bank with **USB PD 3.0** fast charging or newer (the manufacturer recommends PD3.0). Use the supplied USB-C to USB-C cable.
- After disconnecting the cable, wait about 8 seconds before reconnecting it.
- The USB-C port is also used to connect to a computer for firmware updates (Chapter 5.4).

Never connect XT60 and USB-C at the same time.

4. Charging, discharging and storage

4.1 Connecting batteries

- The charger has **six independent channels**. Each channel has one **BT2.0** connector on the top and one **PH2.0** connector on the side. The numbers ①–⑥ on the panel indicate the channel number.
- The BT2.0 connector is compatible with **A30** connectors.
- Connect **only one battery** to each channel – either to BT2.0 or to PH2.0, never to both at the same time.

4.2 Channel modes

Mode	Purpose
charge	charging the battery to full voltage according to the selected type
discharge	controlled discharging of the battery at a current of no more than 0.5 A
storage	bringing the battery to its storage state – charges or discharges it to storage voltage

Each channel can be set individually. Always set the battery type (LiPo, LiHV, LiFe) according to the battery label.

4.3 Charging and discharging current

- The charging current is adjustable in the range **0.1–3.0 A** for each channel. All six channels can charge at up to 3.0 A simultaneously.
- When charging at high current, the charger automatically adjusts the current according to the voltage (the maximum output power is 78 W).
- The discharging current is at most **0.5 A** per channel and the charger adjusts it automatically according to the battery voltage.
- Do not exceed the charging current permitted by the battery manufacturer.

4.4 Controls

The charger is operated with the **scroll wheel** (D) and the **CH button** (C). Turning the wheel left or right changes the value being set. Holding the wheel opens the calibration screen; a short press of the CH button returns from it (Chapter 5.3). Values set for one channel can be applied to all channels using the *apply to all* option.

4.5 Battery voltages

State	1S Li-Po	1S LiHV
fully charged	4.20 V	4.35 V
end the flight	3.5 V	3.5 V
storage	3.8 V	3.8 V

Store batteries that you will not use for several days in their storage state (storage mode). Do not store batteries fully charged or fully discharged for long periods.

5. Protections, calibration and firmware

5.1 Protection functions

The charger has five adjustable protections:

Protection	Function
input voltage	automatic stop if the input voltage drops below the set limit
overheating	automatic stop when the set temperature is exceeded
short circuit	activated when the channel is not working
time	automatic stop when the set time limit is exceeded
capacity	charging stops if the battery exceeds the set capacity

❊ The protection functions are no substitute for supervision. Do not leave the charger unattended even while they are active.

5.2 Cooling

The charger is cooled by a large heat sink and a high-speed fan on the bottom, whose speed is controlled according to temperature. The fan draws in air from below – always place the charger on a flat, firm surface and do not cover the bottom or the ventilation openings on the sides.

5.3 Channel voltage calibration

If the battery voltage shown by the charger differs from the voltage measured with an accurate instrument, you can calibrate the measurement of the individual channels. The procedure is based on the manufacturer's video tutorial *WooPower W63 1S Charger Calibration Guide*.

▶ Preparation

① Connect the charger to the power supply.

② Set the current of the channel you are going to calibrate to **0.1 A**, select *apply to all* and confirm the changes.

③ Determine the exact voltage of the battery you will use for calibration – either with a **multimeter** on the positive and negative terminals of the battery, or by inserting the battery into a drone, switching on the radio and the drone, binding them and reading the battery voltage on the on-screen display (OSD) in the goggles.

▶ Calibration

④ **Hold the scroll wheel** – the calibration screen opens. The top row shows the input voltage (*Input*) and the *adc* value, below them the voltage (*volt*) and current (*cur*) of all six channels, and at the bottom the options *Exit*, *Save* and *Default*.

⑤ Connect the measured battery to the channel you want to calibrate.

⑥ In the *adc* field, turn the scroll wheel left or right to fine-tune the value until the voltage shown for the channel **exactly matches** the voltage you measured. A short press of the CH button returns you.

⑦ Select **Save** – the setting is saved. Finish the calibration by selecting **Exit**.

Use only an accurately measured battery for calibration. Incorrect calibration leads to an incorrect charging voltage.

5.4 Firmware update

The USB-C port is also used for data transfer. To update the firmware, connect the charger to a computer and copy the update files into the folder that appears on the computer. The update files are provided by the manufacturer; disconnect all batteries before updating.

6. Maintenance and troubleshooting

6.1 Maintenance and storage

- Clean the charger with a dry soft cloth while it is disconnected from the power supply and has no batteries connected. Do not use solvents or water.
- Keep the ventilation openings and the fan clean and free of dust.
- Check the connectors and cables; do not use damaged cables.
- Store the charger in a dry place, away from direct sunlight, dust and moisture, with no batteries connected.

6.2 Troubleshooting

Problem	Possible cause and solution
The charger does not start after connecting USB-C	The cable was reconnected too soon after being disconnected – disconnect it and reconnect it after about 8 seconds. Check that the adapter or power bank supports USB PD 3.0.
The charger does not charge at full current	The power supply does not deliver enough power (at least 100 W is required at full load), or the charger automatically limits the current because of the maximum output power of 78 W.
Charging stopped by itself	One of the protections was triggered – input voltage, temperature, time or capacity (Chapter 5.1). Check the power supply, cooling and the set limits.
The charger gets hot	Check that the fan and ventilation openings are not covered and that the charger stands on a flat, firm surface.
The voltage on the display differs from the multimeter reading	Calibrate the channel according to Chapter 5.3.
A channel does not work properly	Check that batteries are not connected to both BT2.0 and PH2.0 of the same channel. Disconnect all batteries before restarting the charger.

7. Technical data

Parameter	Value
Dimensions	125 × 61 × 28 mm
Weight	160 g
Output connectors	PH2.0 / BT2.0 (compatible with A30)
Input connectors	XT60 / USB-C (PD3.0)
Input voltage	7–26 V
Minimum input power	100 W (at full charger load)
Maximum output power	78 W
Charging current	0.1–3.0 A, max. 3.0 A × 6
Discharging current	max. 0.5 A × 6
Number of channels	6, independent
Battery types	LiPo / LiHV / LiFe 1S
Functions	charge / discharge / storage
Display	IPS 1.54", 240 × 240 pixels
Operating temperature	0–75 °C

Manufacturer

Manufacturer	GEPRC
E-mail	support@geprc.com
Web	geprc.com

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 (WooPower W63) is shown on the front panel of the unit.

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.