



ToolkitRC C4

Compact 50 W AC balance charger
User manual



Read the entire manual and the safety instructions carefully before first use. Never leave a charging battery unattended.

*Manufacturer: ToolkitRC Technology (Shenzhen) Co. Ltd · Importer: Rotorama, s.r.o.,
www.rotorama.cz*

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1. Introduction

Thank you for purchasing the **ToolkitRC C4** balance charger. Please read this manual carefully before use, in particular the safety instructions in Chapter 2, and keep it for future reference.

1.1 Further information

To ensure you have the best experience with this product, please stay up to date with news, information and firmware updates for your charger; this information can be found at www.toolkitrc.com/C4.

Manufacturer	ToolkitRC Technology (Shenzhen) Co. Ltd
Manufacturer website	www.toolkitrc.com
Importer to the EU	Rotorama, s.r.o. – see Chapter 8.1

2. Safety

Lithium batteries (LiPo, LiHV, LiFe) can catch fire or explode if handled incorrectly. Follow all instructions below.

2.1 Manufacturer's instructions

- ① The C4 allows an input voltage of **AC 100-240 V**. Ensure the charger is connected to a suitable AC power outlet.
- ② Do not use this product in hot, humid, flammable or explosive environments.
- ③ Do not use this charger without supervision. **Never leave charging batteries unattended.**
- ④ When not using this product, unplug it from the power outlet.

2.2 General rules for safe charging

- Only charge **rechargeable batteries of the supported types** (Chapter 7). **Never charge non-rechargeable (primary) batteries** – they may leak, catch fire or explode.
- Before each charge, check that the selected battery type matches the actual cell type and that the balance connector is correctly and fully inserted.
- Do not charge damaged, swollen, deformed, punctured or overheated batteries. Let the battery cool down after a flight before charging.
- Charge on a non-flammable surface, ideally in a fireproof bag or box, at a sufficient distance from flammable materials.
- Do not cover the charger's ventilation openings and ensure free air circulation around it.

- The charger is intended for indoor use. Protect it from rain, moisture, dust and direct sunlight.
- Do not open or modify the charger. Do not use it if the housing or the power cable is damaged.
- If you notice smoke, odour, hissing or excessive heating of the battery, immediately unplug the charger and, if it is safe to do so, move the battery to a safe, non-flammable place without touching it with bare hands. In case of fire, call the emergency number **112**.
- Disconnect the battery from the charger once charging is complete.

3. Product description

The C4 is a compact balance charger; despite its small size, the C4 has a maximum output of **50 W**! Featuring an intuitive user interface and an LED display, the C4 is a capable, bring-anywhere charger. It is powered directly from the mains, so no external power supply is needed.

3.1 Features

- Charge and balance management of **LiPo**, **LiHV** and **LiFe 2-4S** batteries; charging of **NiMH 5-8S**.
- Input voltage AC 100–240 V.
- Charging current: 0.5 A / 1.0 A / 2.0 A / 4.0 A, selectable.
- Charging accuracy: < 0.01 V.
- Balance current: 400 mA.
- LED capacity indication: 25 %, 50 %, 75 %, 100 %.

3.2 Package contents

- 1× ToolkitRC C4 charger
- 1× power cable

4. C4 layout

4.1 Front and back



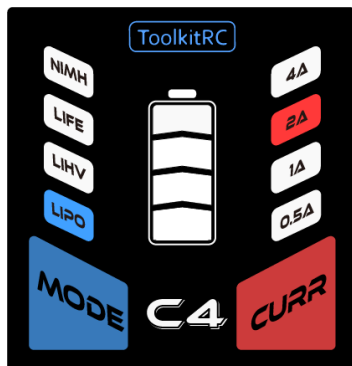
Front



Back

①	MODE key – battery type selection
②	Capacity indication
③	CURR key – charging current selection
④	Balance port
⑤	Charge port (XT60)
⑥	Heat dissipation vents
⑦	AC input

4.2 Control panel



C4 control panel

- **Left column** – selected battery type: NiMH, LiFe, LiHV, LiPo.
- **Centre** – capacity indication in four steps (25 %, 50 %, 75 %, 100 %).
- **Right column** – selected charging current: 4A, 2A, 1A, 0.5A.
- **MODE** – battery type selection key, **CURR** – charging current selection key.

5. Quick start

- ① Connect the C4 to a suitable AC 100–240 V power outlet.
- ② After the unit boots up, the initial LED status is shown (see the figure in Chapter 4.2).
- ③ Short press the **MODE** key to select the battery type.
- ④ Short press the **CURR** key to select the current.
- ⑤ Connect the battery – the power lead to the charge port and, for Lithium-based (LiXX) batteries, also the balance lead to the balance port. When using a Lithium-based battery, charging will start automatically once the self-checking process has been completed.
- ⑥ When all 4 bars of the capacity indication stay illuminated, charging is complete and the battery may be removed.

✳ **For NiMH batteries, press and hold the MODE key for 2 seconds to start charging. The 4 status LEDs will flash while charging and stay illuminated when charged.**

6. Charging settings

6.1 Battery type and current setting

Press the **MODE** key to select the battery type and the **CURR** key to select the charging current. The charging process will start after the battery is connected and the battery status is verified. The capacity indicator will blink while charging is in progress.

6.2 Cut-off voltage

Different battery chemistries have different cut-off voltages. Please refer to the following table as a reference and verify with your battery manual:

Type	per cell	2S	3S	4S
LiPo	4.20 V	8.40 V	12.60 V	16.80 V
LiHV	4.35 V	8.70 V	13.05 V	17.40 V
LiFe	3.60 V	7.20 V	10.80 V	14.40 V

► Important

- ① Ensure the correct battery type has been selected prior to charging. An incorrect choice may damage the battery and/or become a fire hazard. Please use caution.
- ② Do not use this product to charge non-compatible battery chemistries.

6.3 Nomenclature

- ① **LiPo** – often referred to as a lithium polymer battery: nominal voltage 3.70 V per cell, 4.20 V per cell when fully charged.
- ② **LiHV** – often referred to as a high-voltage lithium battery: nominal voltage 3.85 V per cell, 4.35 V per cell when fully charged.
- ③ **LiFe** – often referred to as an iron-lithium battery: nominal voltage 3.30 V per cell, 3.60 V per cell when fully charged.

7. Specification

Section	Parameter	Value
	Input	AC 100–240 V, max. 55 W
	Supported batteries	LiPo, LiHV, LiFe 2–4S NiMH 5–8S
Charge	Charging power	max. 50 W, 4.0 A
	Charging current	0.5 / 1.0 / 2.0 / 4.0 A
	Balance current	max. 400 mA @ 4.20 V
	Charging accuracy	< 0.01 V @ 4.20 V
Display	LED	25 %, 50 %, 75 %, 100 %
Product	Size	106 × 64 × 35 mm
	Weight	165 g
Individual packing	Size	115 × 70 × 58 mm
	Weight	220 g

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@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- 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@rotorاما.cz.
- **Product identification:** the type designation (C4) is given on the product and its 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.