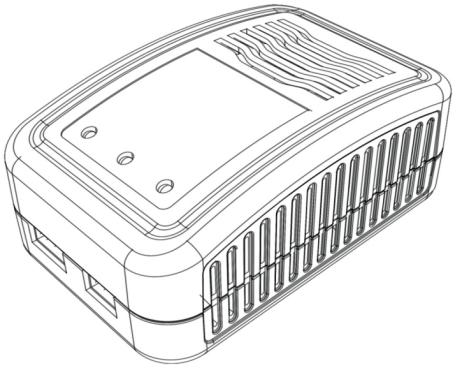
ROTORAMA

SkyRC e3

LiPo balance charger 2–3S
100–240 V AC · 11 W · 1.2 A · SK-100081



Please read this entire manual carefully before first use, especially the safety instructions. Never leave the charger unattended.

Instruction manual · EN

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1. Safety instructions

Please read this entire operating manual completely and attentively before using this product, as it covers a wide range of information on operating and safety. Keep the manual for future reference and pass it on together with the product.

1.1 Who may use the charger

- The product may only be used by persons **aged 14 and over**. The charger is not a toy.
- Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children.

1.2 Power supply and mains cord

- The allowable AC input voltage is **100–240 V AC**. Never connect it to any other voltage.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified persons in order to avoid a hazard.
- Portable class 1 battery chargers for outdoor use must only be plugged into an earthed socket-outlet.
- For battery chargers for installation in caravans and similar vehicles, the connection to the supply mains is to be in accordance with the national wiring rules.

1.3 Batteries

- This charger is suitable for charging **rechargeable LiPo batteries** only. Do not attempt to recharge non-rechargeable batteries. Charging other types of batteries may cause fire or explosion.
- Take great care to maintain correct battery polarity, and avoid short-circuit. Read the battery manufacturer's instructions and adhere to them strictly.
- Do not charge a battery that is mechanically damaged, swollen or hot. After a flight, let it cool down to room temperature first.
- The battery's main power lead stays free while charging — protect its connector against short circuit.

1.4 Charging location

- **Never leave the charger unattended** when it is connected to its power supply.
- Protect the charger from dust, dirt and damp.
- Never place the charger and batteries connected to it on any form of flammable surface. Never operate the charger in the vicinity of inflammable material or gas.

- During charging, the battery must be placed in a well ventilated area. Never place the charger on a carpet or similar surface.
- We recommend charging inside a fireproof LiPo bag and keeping a suitable fire extinguisher within reach.

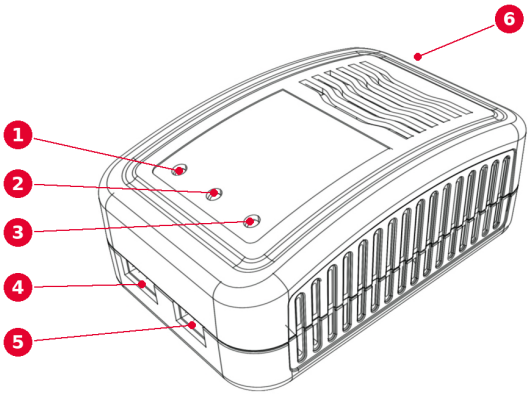
2. Product description

2.1 Introduction

Thank you for your choice of the SkyRC e3, 100–240 V AC balance charger. This unit is simple to use but its operation does require some knowledge on the part of the user.

The SkyRC e3 is an economic, high quality 100–240 V AC balance charger, designed for charging **LiPo batteries from 2–3 cells** in balance mode. The circuit power is 11 W and max charge current can reach 1.2 A. The charger comes with a built-in power supply — you can connect the AC power cord to the AC socket (100–240 V AC) directly.

2.2 Charger overview



SkyRC e3 charger overview

① Cell 1 LED indicator
② Cell 2 LED indicator
③ Cell 3 LED indicator
④ 3-cell balance port (3S)
⑤ 2-cell balance port (2S)
⑥ AC 100–240 V power jack (on the rear side)

2.3 Manufacturer

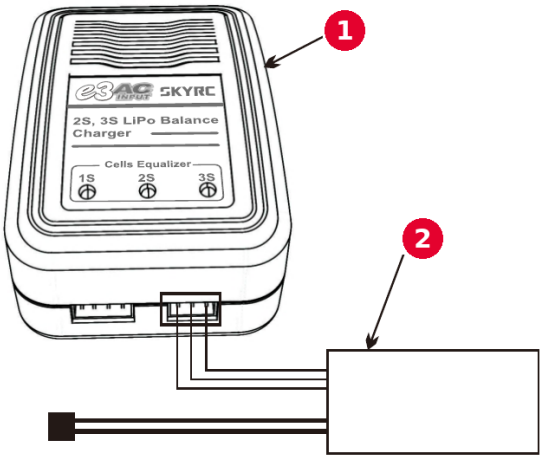
Manufacturer	SkyRC Technology Co., Ltd.
Address	Floors 4, 5, 8, Building 4, Meitai Industrial Park, Guanguang Road, Guanlan, Longhua District, Shenzhen 518110, China
E-mail	info@skyrc.com
Web	www.skyrc.com

Details of the importer and the EU responsible person are given in chapter 8.1.

3. Specification

Parameter	Value
AC input	100–240 V AC, 50/60 Hz
Battery type	LiPo (100–5000 mAh)
Cell count	2–3 (2S, 3S)
Charge current	1.2 A max.
Cell terminate voltage	4.2 V ± 0.02 V (2S: 8.4 V, 3S: 12.6 V)
Circuit power	11 W ± 10 %
Dimensions	88 × 57 × 35 mm
Weight	103 g

4. Connecting the battery



Connection diagram: ① charger, ② battery

CAUTION: This diagram shows the correct way to connect your battery to the e3 charger while charging in balance mode. Failure to connect as shown in this diagram will damage this charger.

- The battery is connected to the charger **by its balance connector only** — a 2S battery to port ⑤, a 3S battery to port ④ (see chapter 2.2).
- Please DON'T connect more than one battery to the balance ports simultaneously. This charger can charge **ONE battery at a time**.

5. Charge procedures

The SkyRC e3 comes with a built-in power supply. You can connect the AC power cord to the AC socket (100–240 V AC) directly. Please refer to the following steps to charge the battery:

① Insert the AC power cord into the charger.

② Insert the AC cord into a wall socket (100–240 V). All LEDs will light green and flash red to indicate the charger is ready to charge.

③ Connect the battery balance wire to the balance port on the front side of the charger. After 2 seconds, the charger detects the voltage of the battery and starts to charge.

④ The charger starts charging. The LEDs will glow constant red. If the battery pack is 2-cell, Cell 1 and Cell 2 LEDs will glow constant red; if the battery pack is 3-cell, Cell 1, Cell 2 and Cell 3 LEDs will glow constant red.

⑤ When a cell is completely charged, its corresponding LED will glow constant green. A 2-cell pack is fully charged when LEDs 1 and 2 are constant green. For a 3-cell pack, all LEDs will glow constant green to indicate the pack is fully charged.

⑥ Unplug the battery from the charger. The LEDs will stay green and flash red, which indicates the charger is ready to charge another battery.

Please DON'T connect more than one battery to the balance ports simultaneously.

▶ Remarks

- If you unplug the battery while charging, the charger will stop charging automatically and enter standby status.
- If the charger encounters overload or short circuit while charging, the charger will stop charging and three LEDs will flash red.

▶ After charging

- A fully charged LiPo battery has 4.20 V/cell, i.e. 8.4 V (2S) or 12.6 V (3S).
- When charging is finished, unplug the charger from the wall socket.

6. LED status and error messages

6.1 Charger status

LED indicator	Charger status
LED stays green and flashes red	The charger is ready to charge.
LED glows constant red	The charger is charging.
LED glows constant green	The charging process finishes.

6.2 Error messages

If the charger encounters a problem, all LEDs will flash red to alert you to the error. In this case, please disconnect the power cord from the wall socket and unplug the battery from the charger.

LED indicator	Cause of error
All LEDs flash red once and stop 1 second, in cycle	The battery is connected incorrectly.
All LEDs flash red twice and stop 1 second, in cycle	The charger encounters overload or short circuit.
All LEDs flash red four times and stop 1 second, in cycle	The voltage of a single cell is too high or too low.
All LEDs flash red six times and stop 1 second, in cycle	There is a 300 mV voltage difference between the cells of the battery pack.

7. Maintenance, liability and standards

7.1 Maintenance and storage

- Before cleaning, unplug the charger from the wall socket and disconnect the battery.
- Clean the charger with a soft dry cloth. Do not use water, solvents or cleaning sprays.
- Do not cover the ventilation openings. Store the charger in a dry place and protect it from dust.
- Do not use the charger if its housing or cord is damaged.

7.2 Liability exclusion

This charger is designed and approved exclusively for use with the types of battery stated in this Instruction Manual. SkyRC accepts no liability of any kind if the charger is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating and maintaining the device. For this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

※ This manufacturer's provision in no way limits the consumer's rights under Czech law (see chapter 9).

7.3 Standards stated by the manufacturer

According to the manufacturer, the SkyRC e3 satisfies all relevant and mandatory EC directives and FCC Part 15 Subpart B. The product has been tested to meet the following technical standards, all with the result *conform*:

Standard	Title
EN 60335-1	Household and similar electrical appliances – Safety – General requirements
EN 60335-2-29	Household appliances – Safety – Particular requirements for battery chargers
EN 62233	Measurement methods for electromagnetic fields with regard to human exposure
EN 61000-3-2:2006 +A1:2009+A2:2009	EMC – Limits for harmonic current emissions (≤ 16 A per phase)
EN 61000-3-3:2013	EMC – Voltage changes, fluctuations and flicker in low-voltage systems (≤ 16 A per phase)
EN 55014-1:2006	EMC – Household appliances, electric tools and similar apparatus – Emission
EN 55014-2:1997 +A1:2001+A2:2008	EMC – Household appliances, electric tools and similar apparatus – Immunity
FCC Part 15B	EMC – conducted and radiated emission (USA)

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 (SkyRC e3, part number SK-100081) is given on the product.

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

9.1 Rights of the buyer under Czech law

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 manufacturer's warranty terms set out below (Chapter 9.2) **do not in any way limit** the buyer's rights arising from these regulations.

- 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.

9.2 Manufacturer's warranty terms

❊ The following text is the manufacturer's original warranty statement.

We guarantee this product to be free of manufacturing and assembly defects for a period of **one year from the time of purchase**. The warranty only applies to material or operational defects which are present at the time of purchase. During that period, we will repair or replace free of service charge products deemed defective due to those causes. For any repair or replacement service, please contact your dealer in the first instance, who is responsible for processing guarantee claims.

This warranty is not valid for any damage or subsequent damage arising as a result of:

- misuse,
- modification,
- failure to observe the procedures outlined in this manual.